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1922 ANNUAL CATALOGUE

RUSSELL-HECKLE SEED COMPANY

62.91

Top Notch
FIELD AND GARDEN
Seeds

RARY
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ment of Agriculture



RUSSELL-HECKLE'S GOLDEN BANTAM SWEET CORN
RUSSELL-HECKLE'S EARLY WONDER BEET
RUSSELL-HECKLE'S BONANZA LETTUCE

SALES DEPT 24 S. FRONT ST.
WHOLESALE WAREHOUSE 589-591 SO. FRONT ST.

MEMPHIS, TENN.

GARDEN PLANTS

FROST PROOF CABBAGE PLANTS

Varieties—Early Jersey Wakefield, Charleston Wakefield, Succession and Early Flat Dutch.

Prices when shipped from Growing Station in South Carolina:

Prepaid by Parcel Post—100, 35c; 500, \$1.50; 1,000, \$2.50.

Not prepaid by Express—500, \$1.00; 1,000, \$1.50; 5,000, \$6.25; 10,000, \$11.50.

Prices when shipped from Memphis:

Prepaid by Parcel Post—100, 50c; 500, \$2.00; 1,000, \$3.50.

Not prepaid by Express—500, \$1.50; 1,000, \$2.50; 5,000, \$10.00.

We usually have plants ready to ship promptly, but occasionally, on account of heavy orders, we may be compelled to hold your order a few days, but rest assured however, we will get them to you as quick as possible.

No order filled for less than 100 of a variety. We do not ship any plants C. O. D. Our terms are cash with order.

Deliveries of all plants will be made subject to crop failures and other causes beyond our control.

HOME GROWN CABBAGE PLANTS

These are ready about the first part of March; they should not be set out earlier, being tender they are not as hardy as the frost-proof kind.

We can furnish the following varieties—Early Jersey Wakefield, Early Flat Dutch, Charleston Wakefield, Succession.

Prices: By Express—100, 35c; 500, \$1.50; 1,000, \$2.50; 5,000, \$10.00.

By Parcel Post—100, 40c; 500, \$1.65; 1,000, \$2.85.

BEET PLANTS

Ready about March 1.

Varieties—Crosby's Egyptian and Eclipse Blood Turnip.

Price by Express—50, 20c; 100, 35c; 500, \$1.50; 1,000, \$2.50.

Price by Parcel Post—50, 30c; 100, 50c; 500, \$2.00.

CAULIFLOWER PLANTS

Ready about March 1.

Prices as follows—Dozen, 15c; 50, 50c; 100, 75c; 500, \$3.00.

By Parcel Post—Dozen, 25c; 50, 65c; 100, 90c; 500, \$3.25.

CELERY PLANTS

Ready about April 15. Not less than 50 plants sold.

Prices as follows—50, 25c; 100, 40c; 500, \$1.75; 100, \$3.00.

By Parcel Post—50, 35c; 100, 60c; 500, \$2.00.

Varieties as follows—White Plume, Golden Self-Blanching.

SWEET POTATO PLANTS

From Inspected Beds

Our Sweet Potato Plants or slips have been sold for many years in all parts of the country, with unvarying success, and we use unusual care in the packing of these plants in order that they may carry the longest distances. Our plants are treated according to state requirements and raised from selected vine cut raised seed. We have hundreds of letters telling us that our sweet potato plants are the best that our customers ever bought.

We can furnish the following varieties, plants ready April 15. They are put up in bunches of 100 each. We do not break the bunches.

Bunch Yellow Yam, Nancy Hall, Florida Yam, Early Triumph, Porto Rico Yam, Yellow Yam.

Price, any variety by Parcel Post—100, 50c; 500, \$1.75; 1,000, \$3.20; 5,000, \$10.50.

Price, any variety, by Express, at buyer's expense—100, 35c; 500, \$1.50; 1,000, \$2.75; 5,000, \$12.50; 10,000, \$22.50.

Prices subject to market changes.

Russell-Heckle Seed Co.'s 1922 Big Dollar Collection

36 GOOD VARIETIES OF GARDEN SEEDS

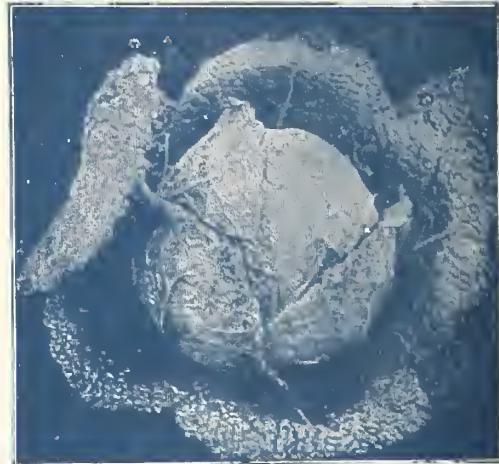
\$1.00 buys the complete collection, all parcel post paid. At regular prices it is worth exactly \$2.00, but we want you to try our excellent seeds. One regular sized packet of each of the following sent to you for only \$1.00.

No. 1 Beans—Burpee's Stringless Green	No. 13 Cantaloupe—Rocky Ford	No. 26 Radish—Early Scarlet Turnip, White Tip
No. 2 Beans—Kentucky Wonder Pole	No. 14 Lettuce—Big Boston	No. 27 Radish—Early Long Scarlet
No. 3 Beans—Henderson Bush Lima	No. 15 Lettuce—Curled Simpson	No. 28 Rape—Dwarf Essex
No. 4 Beans—Lima Sieva, Pole	No. 16 Mustard—Southern Curled	No. 29 Spinach—Curled Savoy
No. 5 Beet—Eclipse Blood Turnip	No. 17 Mustard—Chinese Mammoth	No. 30 Squash—White Bush
No. 6 Cabbage—Early Drumhead	No. 18 Onion—Red, Wethersfield	No. 31 Tomato—Early Detroit
No. 7 Cabbage—Early Jersey Wakefield	No. 19 Okra—White Velvet	No. 32 Tomato—Stone
No. 8 Collard—Southern Georgia	No. 20 Peas—Early Alsaka	No. 33 Turnip—Red or Purple Top S. L. Globe
No. 9 Carrot—Danver's Half Long	No. 21 Peas—Telephone	No. 34 Turnip—Mammoth Purple Top
No. 10 Cucumber—Improved Long Green	No. 23 Pumpkin—Kentucky Yellow Field	No. 35 Watermelon—Tom Watson
No. 11 Corn—Golden Bantam	No. 24 Parsnip—Sugar Hollow Crown	No. 36 Swiss Chard—Silver Beet
No. 12 Corn—Early Surprise	No. 25 Parsley—Double Curled	

WE ALSO INCLUDE ONE COPY OF OUR AMATEUR GARDENERS' GUIDE WITH ABOVE COLLECTION.

WE CAN MAKE NO CHANGE IN ASSORTMENT

Raised from Our Own Top Notch Seeds. Our Plants, Our Service and Our Packing Will Please You



Raised from Frost Proof Cabbage Plants

EGG PLANTS

These are ready about April 20th.

Prices as follows:

By Express—Dozen, 20c; 100, \$1.00; 500, \$4.00.

By Parcel Post—Dozen, 30c; 100, \$1.25.

Varieties as follows—Black Beauty, New York Purple.

LETTUCE PLANTS

Ready about March 1.

Prices as follows:

Prices as follows—50, 20c; 100, 35c; 500, \$1.50; 1,000, \$2.50.

By Parcel Post—50, 30c; 100, 50c; 500, \$1.75.

Varieties as follows—Big Boston, Heckle's Bonanza.

PEPPER PLANTS

Ready about April 20th.

Prices as follows—Dozen, 20c; 100, \$1.00; 500, \$4.00.

By Parcel Post—Dozen, 30c; 100, \$1.25.

Varieties—Chinese Giant, Bell or Bull Nose, Piemento, Cayenne.

TOMATO PLANTS

These are ready about the 20th of March. Our stock is raised from the very best quality of seed and will give perfect satisfaction.

Varieties—Acme, Ponderosa, Early Detroit, Globe, Stone.

Prices as follows:

Hotbed Plants, by Express—Dozen, 10c; 100, 50c; 500, \$2.00; 1,000, \$3.50.

By Parcel Post—Dozen, 20c; 100, 60c; 500, \$2.25; 1,000, \$4.00.

Transplanted Plants: By Express—Dozen, 20c; 100, \$1.00; 500, \$3.50; 1,000, \$6.50.

By Parcel Post—Dozen, 30c; 100, \$1.25; 500, \$4.00.

Russell-Heckle Seed Co. Memphis, Tenn. 24 South Front Street

Please forward the following, as per terms of your catalogue by
(State here if wanted by Mail, Express or Freight)

Date _____

Name _____

Post Office....., State.....
(Write plainly)

County..... R. F. D. No.....
Box No.....

R. F. D. No. _____
Box No. _____

AMOUNT ENCLOSED

M. O.

Check

(If you send personal checks, add 10c to same for collection, as our banks make this charge for handling same. All checks must be certified).

Cash

Stamps

Shipping Depot or Express Office if different
from Post Office

OUR GUARANTEE: We won't ship you seed until we know they will germinate. Of course, we cannot guarantee you a crop, for we cannot be there to plant them or attend to them; and weather conditions sometimes positively prevent a stand. But you can take our seeds home, examine them, test them and call in your neighbor or county agent, and if you feel that you have not gotten your money's worth, or our seeds are not as represented, return them at once and we will refund the amount you paid for them. That's fair now, isn't it? We leave it all to your judgment, and all we ask is a fair deal, which we know you will give us. "Treat 'em right" is our motto.

Please Use This Sheet When Ordering Goods

WRITE NAME AND ADDRESSES PLAINLY
AND IN FULL—IN THE SPACE ABOVE

When You Plant You Want the Best. Sow Russell-Heckle's Top Notch Field Seeds. They are Best.

Fertilizers, Insecticides, Sprayers, Incubators, Brooders and Hovers.

DO NOT WRITE IN THIS SPACE

Filled by..... **Checked by.....** **Shipped by.....** **Date.....**

HAVE YOU FRIENDS OR NEIGHBORS INTERESTED IN BETTER FIELD, VEGETABLE AND FLOWER SEEDS?

If so, please write their names below. We will send them Catalog on your request. We would like to have names from all parts of your county.

We will send you free one of our 1922 Almanacs and Calendars on your request, also two packets of some new varieties of seeds for the favor.

Initials and Name	Postoffice	R. F. D.	State

FRUIT TREES, STRAWBERRY PLANTS AND BULBS

SATISFACTION IN TOP NOTCH SEEDS

THIS is an age of specialists in almost every line of work. There are firms and individuals who have made a specialty of certain lines. We are specialists in the **SEED BUSINESS** through training and experience and in as much as we have handled pure bred seeds that are particularly adapted for this section of the country, our service department is always glad to furnish you with any information you may desire in the preparation of the soil, time of planting, varieties best suited for your section and the methods of cultivation of any seed, whether field, garden or flower.

Our Poultry Supply Department is complete and we are in position to give you any information in reference to raising poultry. Just tell us your troubles and we will try to help you.

The past year has been one of disappointments but the sky is clearing and conditions for the coming season are looking indeed bright. Business as conditions will adjust themselves, will become normal. Most all prices on both agricultural and vegetable seeds are far below those prevailing the past few years. Therefore our customers can now put in larger acreage at a much less cost. So let us look to the future with optimistic confidence and work with renewed zeal.

It is our desire to keep in close touch as possible with our many customers for we know the development and growth of our business is built upon your friendship and good will and

there is only one way in which we may merit and hold that friendship and that is for a fair and square deal to all. **TREAT 'EM RIGHT** is our motto.

It is our intention to build a lasting and permanent business and to conduct it in such a manner that you will be **more** than a customer and will be a friend as well. Our business has shown a phenomenal growth the past year and we are compelled to enlarge our facilities with a much larger warehouse to take care of our increased business. We will regard it as a privilege to be able to number you among our big family of customers.

In closing we wish to take this opportunity to thank you for your generous patronage and to express the hope that we may again be favored with your orders. We appreciate an order from you just the same whether it is for \$10.00 or 10 cents, and it will receive the same careful attention regardless of the amount.

With best wishes to you for a Happy and Prosperous Year. we are

Sincerely yours,
RUSSELL-HECKLE SEED CO.
J. T. Russell Chas. E. Heckle.

Wholesale Warehouse, 589 South Front St.
Sales Dept. 20 South Front St.
HOME OF TOP NOTCH SEEDS

INSTRUCTIONS

Send Cash With Order This can be done either in the form of a Money Order, Bank Draft, Express Order, Registered Letter, or cash may be sent by express.

We Pay Postage on all seeds quoted by the packet, ounce, quarter pound and pound, also on pints and quarts of Peas, Beans and Sweet Corn, and on plants and bulbs except where noted otherwise, and upon all goods quoted in our catalogue where it says: **Parcel Post paid.**

Notice Carefully the Prices Be sure to know whether we or you are to pay the freight or express, and bear in mind that **we do not pay the express or freight charges on pecks or bushels, nor on any tools or plants, nor on Potatoes, Grass Seeds, Field Seeds or Fertilizers, except where we so state on the pages where the goods are priced.**

The Prices We Quote on Vegetables and Flower Seeds will hold good as long as stocks

IN ORDERING

last. The prices on Grass Seed, Grains and all Farm Seeds are those ruling January 1, 1922, and are subject to market changes. As far as possible we will fill in full all orders for seeds that are quoted subject to variation in price, but if market values will not permit this, we will send all that money remitted will pay for.

Our Guarantee: We won't ship you seed until we know they will germinate. Of course, we cannot guarantee you a crop, for we cannot be there to plant them or attend to them and weather conditions sometimes positively prevents a stand. But you can take our seeds home, examine them, test them and call in your neighbor or county agent, and if you feel that you have not gotten your money's worth, or our seeds are not as represented, return them at once and we will refund the amount you paid for them. That's fair now, isn't it? We leave it all to your judgment, and all we ask is a fair deal, which we know you will give us. **"Treat 'em right"** is our motto.

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Our Specialties and Novelties

Make Gardening a Real Pleasure Our Specialties offered here are varieties that are the real leaders in their respective classes. Include a few Novelties in your order also. The Novelties are new varieties and sometimes represent an entirely new class of vegetables. A great deal of the pleasure of gardening lies in discovering something new and in being pleasantly surprised. These Novelties will help you win prizes at exhibitions and will certainly excite the wonder of your friends. Novelties pay their way in the satisfaction they give.

Fordhook Favorite Bush Beans A White Seeded Stringless Green Pod. This is a green podded bean, perfectly stringless, with white seeds, which can be used for soup or baked beans all winter. The bush grows from 18 to 20 inches high, with dark green foliage, producing an enormous yield of beautiful, meaty, almost round, green pods, averaging $5\frac{1}{2}$ to $6\frac{1}{2}$ inches long. Very brittle and juicy and above all positively stringless at all stages of its growth. For market gardeners as well as the home garden, one of the very best. Ready for picking in 45 days. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

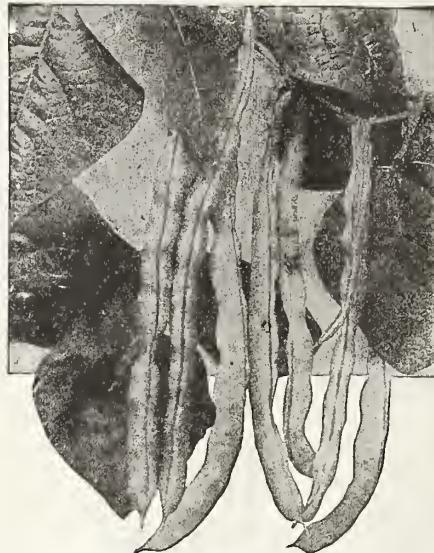
McCaslan Pole Bean A comparatively new green-podded variety. It comes early to mature. The pods average 8 to 10 inches in length, are flat, slightly curved, and of a rich green color, containing ten fine beans. Makes an excellent snap bean and the white-shelled beans are unsurpassed for winter use. Pkt., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c; parcel post paid. By freight, $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

The "Yard Long" Bean **ASPARAGUS BEAN.** Pods are nearly up to the name, often reaching a length of 30 to 36 inches, but usually 18 to 24 inches. Your friends will wonder at and admire your plants of this great bean, and they are of excellent table quality also, with a rich asparagus flavor. Do not be without this valuable curiosity. It is a pole bean of quick growth, with neat foliage, not attacked by insects. Pkt., 15c; $\frac{1}{2}$ pt., 30c; pt., 50c; parcel post paid. By freight, $\frac{1}{2}$ pt., 25c; pt., 45c.

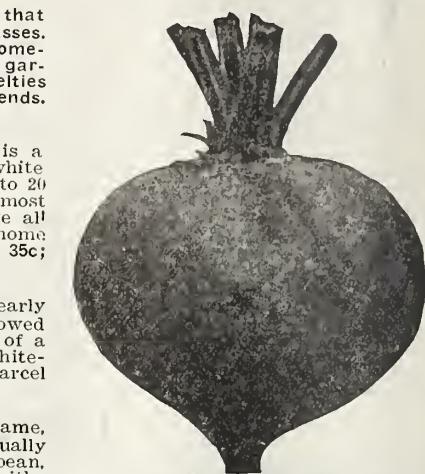
New Bountiful Bush Beans

Remarkably Prolific and Continuous Bearer. This superior variety is an improvement in green bush beans, and has become exceedingly popular wherever known. The plant is of thrifty growth, and practically rust and mildew proof. It is very hardy, extremely early, very prolific, and bears continuously for several weeks; it is the first to give pods fit to pick in the spring, and the last to yield edible pods in the fall. But the crowning merit of this grand bush bean is in the rich, green pods, which are of large size, thick, broad, flat, extra long, very uniform in shape, solid, meaty and of high quality; melting tender and having a delicious flavor exclusively their own; moreover, the pods are absolutely stringless. In addition, is almost excellent shelled for winter use. Ready for picking in 42 days. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. By freight, $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

Golden Giant Sweet Corn As Good as Golden Bantam to Eat and Very Much Larger. That sentence will describe Golden Giant to you in the best way. You know how tenderly delicious and sweet Golden Bantam is. Those who have grown Golden Giant say it is just as good to eat and yet is 50 to 75 per cent larger. The ears have 12 to 16 rows of very deep luscious golden kernels. It is ready for your table early, very soon



New Bountiful Bush Beans



R.-H. Co.'s Early Wonder Beet

after the Golden Bantam. Eastern gardeners have frantically tried to secure the corn as they know it will be a big money maker. Most stalks bear two ears and approximately 50 ears will fill a bushel box. It is certainly a profitable and good variety to grow and we heartily recommend it to you. Pkt., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c; parcel post paid. By freight, $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

R-H Co.'s Early Wonder Beet

The first beet on the market where it will command fancy prices; most perfect in shape and a beautiful red color. Superior to Crosby's Egyptian and one week earlier. R-H Co.'s Early Wonder Beet is the result of years of selection and the improving resulting we believe in the earliest and most handsome globe-shaped beet on the market. It will pay you handsomely to give Early Wonder Beet a trial. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c; lb., \$1.75; parcel post paid.

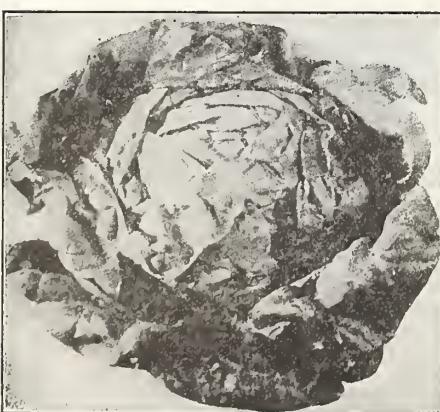
R-H Co.'s King of Picklers Cucumbers

The Greatest Yielder of All. Unequaled in Quality.

This is one of the grandest of all picking cucumbers. It is fine in form, solid and thick in texture, excellent in flavor and combines all the qualities necessary to make a good pickle. It is very productive, yielding the past season, over 250 bushels per acre. It is also adapted for slicing, as it grows from 9 to 12 inches long, retaining its rich, green color throughout the entire length, which is straight and smooth and symmetrical. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.75, prepaid.

New Chicken Lettuce Your poultry needs the "green" food and this variety of Lettuce is just the thing you will want to grow for this purpose. It is a genuine Lettuce which will yield as much or more chicken or rabbit feed as any plant that you may have used for "greens." When once cut it starts to grow again and makes a successive crop. The leaves can be pulled off each stem like a kale plant. Can be sown any time during spring or summer; make several plantings for succession crops. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c.

R-H Co.'s Bonanza Lettuce Produces immense heads, 15 to 18 inches across, and as solid as a cabbage. It blanches beautifully. Crisp, tender and delicious. Absolutely free from bitterness. The Largest-Heading Lettuce of all. It frequently weighs two or three pounds. The heart is very solid, of pleasing light green color. The leaves are large and crumpled. As an example of its "standing" properties, perfect Lettuces were cut from the same bed for upwards of seven weeks. It is pronounced the finest in cultivation for exhibition purposes, and for an outdoor all season variety it stands unrivaled. Ready for market in 60 to 65 days. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.



R.-H. Co.'s Bonanza Lettuce

Russell-Heckle Seed Co.,
Memphis, Tenn.

Gentlemen: The Turnip Seeds your house sent me a short time ago are up to a good stand. I am glad to report they are so satisfactory.

Yours truly,
THOMAS D. NEWTON.

Winchester, Ark., 9-1-21.

R. & H.'s Specialties and Novelties



R.-H. Co.'s Golden Hearts **Cantaloupe or Muskmelon**
This great muskmelon is the result of careful "crossing" and patient, painstaking work in selecting by a well known melon grower of Michigan. Golden Hearts is a medium early melon. The flesh is thick, very tender and of a beautiful golden salmon color. It is of excellent flavor, being very sweet and delicious. It ripens clear to the skin. The melons are well ribbed, and are covered with a dense netting of grayish color. The thin rind is a rich, dark green color. They are nearly round and average a little more than 5 inches in diameter and weigh about one lb. and three-quarters apiece. Pkt., 10c; oz., 20c; 1/4 lb., 50c; 1 lb., \$2.00; parcel post paid.

New "Irish Gray" or Liberty Watermelon also called Pershing **General Pershing**—The size of this melon is uniformly large and it closely resembles Kleckley's Sweets except the color, which is a yellowish-gray. Flesh is very sweet and firm, without hard center, brilliant sparkling red. Rind almost as tough as a citron making a grand shipper. Earlier than Tom Watson. Irish Gray has instantly met with universal favor. Pkt., 5 oz., 15c; 1/4 lb., 40c; lb., \$1.00; parcel post paid.

Thomas Laxton Peas General Pershing Very early; has become one of the popular early market sorts. Pods large, deep rich green, filled from end to end with plump peas. Vines hardy and grow from 3 to 3 1/2 feet high. The seed is wrinkled so don't plant until March. Pkt., 10c; 1/2 pt., 25c; pt., 40c; qt., 70c; parcel post paid. By freight, 1/2 pt., 20c; pt., 35c; qt., 60c.

Laxtonian Peas The best of all Dwarf Peas. Produces enormous pods, 8 to 10 peas to the pod; finest quality. No variety of recent introduction has so many good points to recommend it. The seed is wrinkled so don't plant until the ground is warm. Pkt., 10c; 1/2 pt., 25c; pt., 40c; qt., 70c; parcel post paid. By freight, 1/2 pt., 20c; pt., 35c; qt., 60c.

R.-H. Co.'s Perfection White Tip Radish General Pershing **Attractive**

Bunching Radish on the Market—The best strain of Scarlet Turnip White Tip Radish, with the white tip well developed, covering the lower half of the radish. Extra early, crisp and tender. This radish is a real table dainty, being very crisp and sweet. Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1 lb., 80c; parcel post paid.

New Squash "Plymouth Rock"

The color is a grayish green, shell soft, so that it can be cut with a knife. It grows from eighteen to thirty inches long and six to eight inches in diameter. It is very prolific, but a shy seedier. Flesh is of high color; entirely free from fibre or stringiness. Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; lb., \$3.50; parcel post paid.

R.-H. Co.'s Earlibell Tomato

First on the Market—first for the highest prices. Earlier than Spark's Earliana or any other tomato. Its color is a beautiful, deep glossy scarlet, and very attractive. Pkt., 10c; 1/2 oz., 30c; 1 oz., 50c; 1/4 lb., \$1.25; parcel post paid.

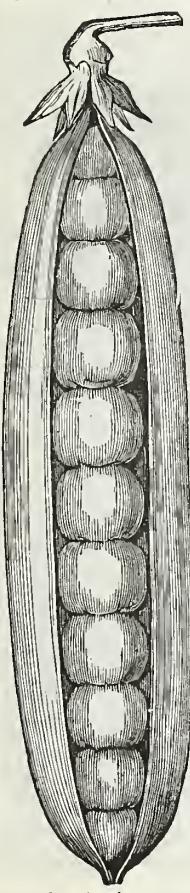
Michigan Red Wonder Tomato

The Most Productive Early Tomato

Michigan Red Wonder ripens right after Earlibell and nearly a week ahead of Chalk's Jewel. Just three months from the planting of the seed, it is ready for the market. Pkt., 10c; 1/2 oz., 30c; 1 oz., 50c; 1/4 lb., \$1.25; parcel post paid.

R.-H. Co.'s Early Flowering

Spencer Sweet Peas General Pershing These come into flower two weeks earlier than the standard sorts, and will bloom a longer season. Don't fail to plant them this spring. We know you will be highly delighted with the results of this new early type of Spencer Sweet Peas. Mixed colors, pkt., 15c; oz. 50c.



Laxtonian



The Burbank Tomato

The Burbank Tomato

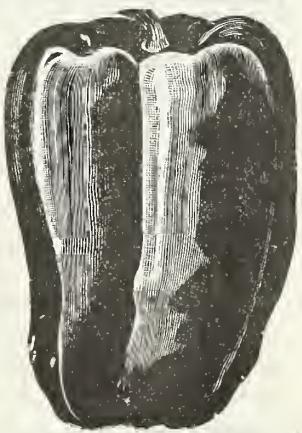
Luther Burbank's Marvelous Creation

Mr. Burbank states that he has spent more than a dozen years in evolving this new variety through careful breeding. Fruit bright crimson, thick, heavy, solid, smooth, medium to large in size and continuous to bear throughout the season. The Burbank has another unique and most remarkable quality which will be appreciated by those who like fresh sliced tomatoes for the table and that is, the skin can be peeled from the rich firm flesh. The Burbank marvelous tomato is more resistant to blight than any other tomato. Mr. A. B. Haven, the well known tomato seed grower, states on his trial grounds the Burbank tomato was the hardest and most blight resisting variety of all. Many other varieties showing disease and dying before the Burbank. It is a very early variety and we feel sure it will pay well as a market and shipping tomato. Price: Pkt., 15c; 2 pkts., 25c; 1/4 oz., 75c; 1 oz., \$2.00; parcel post paid.

R.-H. Co.'s American Red Top Globe Turnip

Grown for us on contract from our own special seed stock. A perfect globe shape, with bright red or purple top and snow white bottom. It does not taper like other types of the same variety. This is due to the utmost care in selection when growing for seed. Our market gardeners here will have nothing but R.-H. Co.'s American grown Red Top White Globe and we pride ourselves on this stock. You want the best, so don't be misled. A trial will convince you of its merit. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c; 5 lbs., \$2.75; parcel post paid.

World Beater Pepper A Grand New Variety—It is a cross between Chinese Giant and Ruby King, having the shape of the Ruby King, except that it is broader at the pointed end and almost the size of the Chinese Giant. It is far more prolific than Chinese Giant, some plants producing as high as twenty-four marketable peppers, and it is fully as early as Ruby King. It is exceedingly mild and can be sliced and eaten raw without any fear of burning. Color of fruit green at first, turning to a beautiful shade of scarlet. The flesh is thick, which enables it to hold up a long time and makes it an excellent shipper. Pkt., 10c; 1/2 oz., 25c; oz., 50c; 1/4 lb., \$1.25; 1 lb., \$4.50; parcel post paid.



World Beater Pepper

SPRAY PUMPS

We have the most complete line in the city. Call and see the Barrel Sprayers. Portable Sprayers, Compressed Sprayers, Hand Sprayers, Bucket Sprayers; best makes at reasonable all the prices.

R. & H. Co.'s Top Notch Quality Seeds

PROTECT YOURSELF FROM FAILURE—INSURE YOUR CROPS BY PLANTING RUSSELL-HECKLE'S TOP NOTCH SEEDS

Our seeds are the **BEST** that can be obtained anywhere. No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our fast increasing trade will testify.

THE VEGETABLE GARDEN

No matter how small the place, none is complete without its own vegetable garden to furnish the home table. A well-planned and neatly kept garden can be made to pay, on a dollar and cents basis alone. In these days of high prices, the vegetable garden can be made to pay, and where that side of the matter is disputed, there is no question that to get the best quality of vegetables you must grow them yourself.

Any plot of ground, with intelligent preparation, can be made to grow crops successfully.

A home garden is one of the most important and valuable parts of the farm or home, for what is healthier and cheaper than a nice lot of fresh vegetables, such as radishes, corn, lettuce, tomatoes, peas, beans, etc., for the table, any one of which can be easily grown by following our instructions.

WHY NOT ALL-THE-YEAR GARDEN FOR NEXT YEAR

An all-the-year garden is possible on every Southern farm. The necessity for such a garden was never more important than now. Resolve to live at home during 1922. The following pointers will help:

One—Purchase an ample supply of Top Notch seeds.

Two—Have a hotbed to start vegetables, such as cabbage, beets, tomato, egg plant, cauliflower, etc.

Three—Give the garden a heavy dressing of well-rotted stable manure before breaking and fertilize the growing crops liberally with commercial fertilizers.

Four—Don't wait until spring to plant the entire garden.

Five—Keep the garden at work.

Six—Sow the "cool season" vegetables, such as garden peas, onion sets, kale and spinach as soon as the weather is favorable.

Seven—Plant for succession—that is, make several sowings of early maturing vegetables.

Eight—Group the "long season" crops, such as salsify, parsnips, etc., together.

Nine—Practice a rotation.

Ten—Keep up your enthusiasm.

Special Rates on Garden Seeds, Packets and Cartons

We sell any

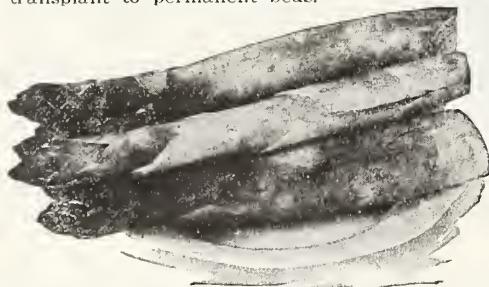
6	5c sizes for.....	\$0.25
14	5c sizes for.....	.50
30	5c sizes for.....	1.00
3	10c sizes for.....	.25
7	10c sizes for.....	.50
15	10c sizes for.....	1.00
3	20c sizes for.....	.50
7	20c sizes for.....	1.00

Your selection, all parcels post paid. It will pay you to send us your order for Top Notch Garden Seeds.

ASPARAGUS

One Ounce Will Sow About 50 Feet of Drill

Sow in spring as soon as the soil is in good working condition. Cultivate during the summer, and give the plants a light covering of stable litter during winter. At one or two years, transplant to permanent beds.



Palmetto Asparagus

Palmetto Very early, large and pale green, purple tipped. Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1 lb., 60c; parcel post paid.

Barr's Mammoth Large and fine, white tipped. Pkt., 5c; oz., 10c; 1/2 lb., 25c; 1 lb., 70c; parcel post paid.

ASPARAGUS ROOTS

Set roots or plants either in spring or fall. Directions for making beds supplied with orders.

PALMETTO ASPARAGUS ROOTS

Price, 2 year old roots: 50, \$1.00; 100, \$1.75; 1,000, \$15.00. By parcel post: 50, \$1.20; 100, \$2.10. 3 year old roots, not prepaid: 12, 50c; 50, \$1.75; 100, \$2.75. By parcel post: 12, 60c; 50, \$2.15; 100, \$3.20.

ARTICHOKEs

One Ounce Will Produce 500 Plants Sow seeds in drills in March 8 to 10 inches apart; when the plants are well up transplant in rows 4 feet apart and 2 feet apart in the rows. Cover with straw during winter.

Green Globe French Fine large heads. Pkt., 10c; oz., 50c; parcel post paid.

BUSH or SNAP BEANS

WAX POD OR YELLOW POD VARIETIES

CULTURE—These can be planted with safety any time from April 10th to August 15th. Sow 3 inches apart in rows, and have the rows $2\frac{1}{2}$ or 3 feet apart. One quart will sow 200 feet of row.

Improved Golden Wax

Improved strain of the well known Golden Wax, which it has greatly outyielded. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Prolific Black Wax

A popular variety of unusual good merit; color of pod waxy yellow; tender, productive. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Refugee Wax

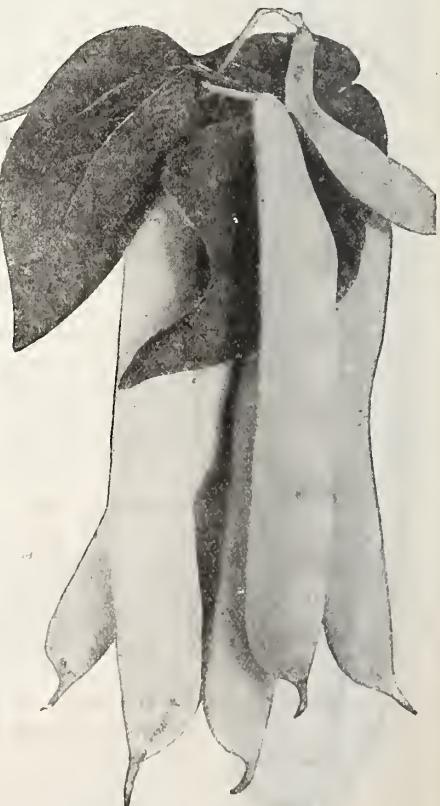
Almost stringless. An early variety. Very tender and of the finest quality. Produces in about 45 days from time of planting in warm favorable locations and continues to bear for several weeks. Pods are $4\frac{1}{2}$ to 5 inches long, slightly curved, well filled and round. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Round Pod Kidney Wax

The best round podded variety. Sure to yield an early and profitable crop. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Sure-Crop Stringless Wax

A perfectly stringless, flat-pod wax bean. Pods large and are produced freely. Upright, vigorous vine. A fine, sweet flavor. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.



Improved Golden Wax

Prices on Bush Beans by the gallon, peck and bushel are quoted on Special Green Ink Price Sheet enclosed.

BUSH or SNAP BEANS

GREEN-PODDED VARIETIES

CULTURE—These can be planted with safety any time from April 1st to September 1st. Sow 3 inches apart in rows, and have the rows $2\frac{1}{2}$ or 3 feet apart. One quart will sow 200 feet of row.

Black Valentine A new bean. Very early, round pod, light green color. May be planted quite early, as the seed stands cold weather well. A strong grower and very hardy. It produces much larger pods than the Red Valentine and is harder, but rather later than this variety. A good bearer and attractive in appearance, making it a good market variety. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Burpee's Stringless Green Pod This is a stringless bean, and this quality alone puts it ahead of most table beans. It is also extra early and of splendid table qualities. A vigorous grower, producing round, green pods of highest quality, being absolutely stringless. It is early, a heavy yielder and valuable alike for market or home garden. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Giant Stringless Green Pod A selection from the original stringless, not quite as early, but fully a third larger than its parent. Has a much larger pod than the Stringless Green Pod; averages 5 inches long. Full and fleshy, extremely crisp and absolutely stringless; very early and prolific. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Hopkins Early Red Valentine An improved strain of the Red Valentine, having quite fleshy pods, which are round, brittle and tender. It is equally early, of fine, rich flavor, and very productive. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Longfellow Round, long pod. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

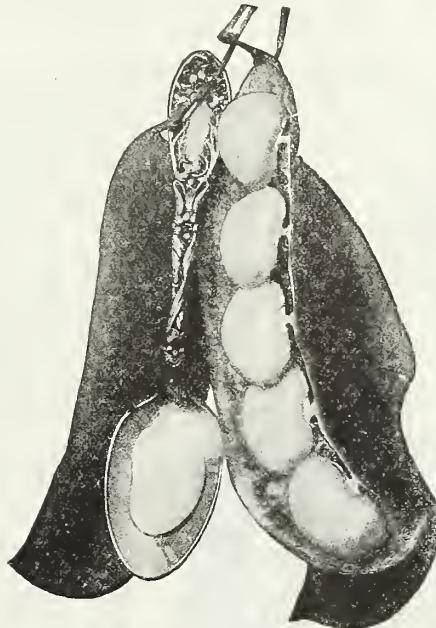
Improved Red Valentine This is the most popular bean grown. Pods are round, thick and fleshy, of good quality and flavor.

To those who want an extra early, yet extremely productive, green pod bean of most temptingly delicious quality, we recommend this superb bean, knowing it will please the most critical epicure. Every essential of this strain is decidedly a winner; its quality; its productivity; its appearance; its earliness; its size; its ease of culture; its tenderness; its brittleness; its delicious flavor and its incomparable lusciousness. Edible pods in about five weeks. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Refugee or 1000 to 1

A producer of remarkably large crops. Compared with Valentine it is similar in general qualities, with pods a third longer and tapering to a point; they are perfectly round. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Tennessee Green Pod A very hardy and healthy bean of recent introduction; is a good yielder of large, very flat pods, 6 to 7 inches long; dark green color and excellent flavor. Not entirely stringless. Its chief recommendations are earliness and vigor. This fine variety is planted very extensively in the South. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.



Henderson's Bush Lima

BUSH LIMA BEANS

ONE QUART WILL PLANT 200 FEET OF DRILL

Plant in May in light rich soil, in drills two feet apart, dropping the seeds about one foot apart in the row, and cover two inches.

Henderson's Bush Lima Beans are small but very productive, bearing continuously throughout the summer. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Fordhook Bush Lima An immense yielder, with some large pods, well filled with large beans. Pkt., 10c; $\frac{1}{2}$ pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Jackson Wonder Bush Lima Of more bushy character than other varieties; pods borne nearer stalk. Productive; in quality and flavor unsurpassed. Pkt., 10c; $\frac{1}{2}$ pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Woods Prolific Bush Lima Same as Henderson Bush, but pods and beans slightly larger. Very prolific. Pkt., 10c; $\frac{1}{2}$ pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Prices on Bush Lima and Green Pod Bush Beans by the peck and bushel are quoted on Special Green Ink Price Sheet enclosed.

SPECIAL RATES

on Garden Seeds, Packets and Cartons. We sell any

6	5c size for.....	\$0 25
14	5c size for.....	.50
30	5c size for.....	1.00
3	10c size for.....	.25
7	10c size for.....	.50
15	10c size for.....	1.00
3	20c size for.....	.50
7	20c size for.....	1.00

Your selection all parcels post paid. It will pay you to send us your order for Top Notch Garden Seeds.



Burpee's Stringless Green Pod

POLE or RUNNING BEANS

Plant in May and June, in rows 4 feet each way; 5 in a hill. Can be planted in corn or by poles, 8 feet high. One quart will plant about 200 hills.

Prices on all Pole or Running Beans and Pole Lima Beans by the peck and bushel are quoted on Special Green Ink Price Sheet enclosed.

White Dutch Case Knife Bears large flat pods early in the season. Being white-seeded, it is excellent to grow dry shell-beans for winter. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. By freight: 1/2 pt., 15c; pt., 30c; qt., 50c.

Golden Cluster Pole Wax The best and most productive main crop variety of the wax podded pole beans. It is medium early, is of excellent quality, used either as snap, green or dried shelled beans. The vines are of large growth and produce in abundant clusters of 3 to 6 yellow pods, averaging about 8 to 9 inches. Very attractive and much used for show and exhibition purposes. The pods are flat, straight, very broad, thick and fleshy, entirely stringless, very smooth surface. The dry seed is pure white. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

Kentucky Wonder or Old Homestead It is almost needless to say anything about this great pole bean, for who has not grown it? Popular everywhere in the South for years because of its

wonderful production of splendid beans. The yield is great, the quality is good, and no bean is more sure of making a crop. It bears in 65 days from planting; should be kept picked so that it will continue bearing until frost. The beans are 6 to 12 inches long, tender and rich. It should be planted in every garden, and be sure to get the genuine Kentucky Wonder and not any of the tough substitutes. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 50c.

Kentucky Wonder Pole Wax Similar to green podded Kentucky Wonder. Broad, fleshy, stringless pods of fine quality. Pkt., 10c; 1/2 pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 20c; pt., 30c; qt., 50c.

Lazy Wife An excellent variety for home use. Can be used for cooking green or shelled for winter. Pods are broad, thick and stringless until quite large; very tender, of delicious flavor. Pkt., 10c; 1/2 pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

Red Speckled Cut Short This variety is the best bean to plant in corn hills. It is hardy, late and is a heavy yielder. Pkt., 10c; 1/2 pt., 10c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

Scotia or Striped Cornfield This is the real, unadulterated Cornfield Bean that you have read so much about. If you want a bean to plant in your corn, this is your one choice. It will produce the kind of results that you'll expect. It is green-podded, producing beans about 6 inches long, round and well filled. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

White Creaseback or Fat Horse Especially valuable on account of its earliness and the fact that the entire crop may generally be harvested at one time. The vines are small, but produce large crops on good soil. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 45c.

White Seeded Kentucky Wonder Similar to Kentucky Wonder, except that the seed is white and pods not quite so large. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

POLE LIMA BEANS

Plant in hills three to four feet apart each way, and two inches deep, allowing six seeds to each hill. When the plants are well established they should be thinned out to four. They are more sensitive to cold than the Bush Beans, and should not be planted before May.

Carolina Sieve or Butter Bean Earlier and more productive than the large Lima. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

Giant Podded White Lima Extra size, both in pods and beans and also of superb flavor. Pkt., 10c; 1/2 25c; pt., 40c; qt., 70c; parcel post paid. Not prepaid: 1/2 pt., 20c; pt., 35c; qt., 60c.

King of the Garden Lima Vigorous and productive. Beans of very large size; quality first-class. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.

Large White Lima One of the best shell beans grown; matures in ninety days; very popular. Our seeds of this variety are extra selected, large and fine. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 45c.

Russell-Heckle's Monster Lima Beans The best and largest Pole Bean in existence. The pods are gigantic in size, bearing in clusters of four to six. The pods are gigantic in size, bearing in clusters of four to six. The beans are extra large, of a light green, with a very fine skin, being tender when cooked. There are from five to six beans in a pod, and sometimes more. Pkt., 10c; 1/2 pt., 25c; pt., 40c; qt., 70c; parcel post paid. Not prepaid: 1/2 pt., 20c; pt., 35c; qt., 60c.



King of the Garden Lima

Speckled or Calico Butter Beans A mottled or speckled butter bean, that is sure enough productive; no variety can equal them in bearing, and we know that you will like them. Pkt., 10c; 1/2 pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 30c; qt., 50c.



Crosby's Egyptian

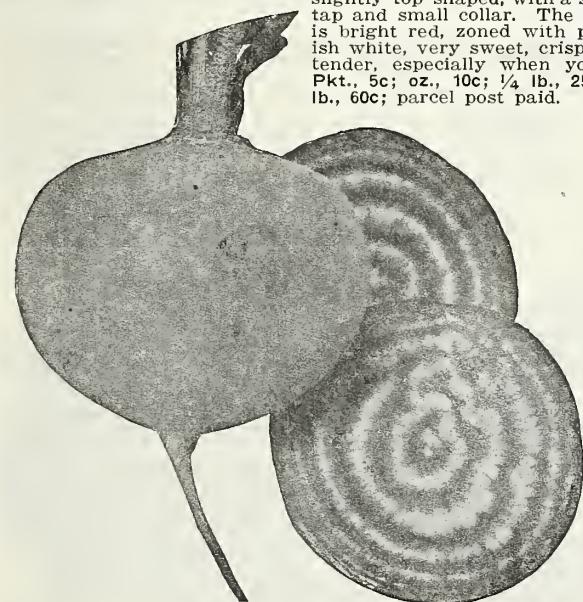
red, zoned with a lighter shade, very sweet, tender and of excellent quality. This is one of the best for early planting outdoors and is much used for bunching. It becomes fit for use earlier than any other variety. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

Crimson Globe This is a splendid sort; is extensively planted for second early and main crop purposes; is medium size, about 10 inches around, globe shape, uniform, without rootlets and perfectly smooth. Foliage is small, rich, purple-bronze color. Flesh is rich blood red, sweet, tender and never stringy. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

Detroit Dark Red Turnip Beet This is one of the finest formed and handsomest-colored beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

Early Model The earliest of any beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it cannot be beat. It is tender, sweet and juicy, retaining its crispness throughout the season. The foliage is of a very dark color, is very small, permitting close planting of beets. Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1 lb., \$1.00.

Early Eclipse An early beet especially desirable for the home garden and used for bunching. The tops are small. The roots are bright deep red, smooth, round or slightly top shaped, with a small tap and small collar. The flesh is bright red, zoned with pinkish white, very sweet, crisp and tender, especially when young. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 60c; parcel post paid.



Early Blood Turnip

BEETS

For very early crop sow in hotbeds in January and February and transplant. Sow outside in drills from March to July, as desired, for medium early or late crop. Drills 2 to 3 feet apart. Use a light, clean, free deep soil. One ounce will sow 50 feet of drill.

Plant more beets and eat more—they are a cheap food, too.

Crosby's Egyptian

This very desirable table beet does not closely resemble the Egyptian except in its extreme earliness. The tops are small. The roots are flattened globe shaped and very smooth. The exterior color of the root is bright red. The flesh of our strain is bright vermillion-

red, zoned with a lighter shade, very sweet, tender and of excellent quality. This is one of the best for early planting outdoors and is much used for bunching. It becomes fit for use earlier than any other variety. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

Crimson Globe This is a splendid sort; is extensively planted for second early and main crop purposes; is medium size, about 10 inches around, globe shape, uniform, without rootlets and perfectly smooth. Foliage is small, rich, purple-bronze color. Flesh is rich blood red, sweet, tender and never stringy. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

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Early Blood Turnip This is a turnip beet, and is the old standard among the early varieties. It is of dark red color and is perhaps the most popular of all beets. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 60c; parcel post paid.

Long Smooth Blood Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

More beets should be eaten, more should be grown at home. It is an easy crop to grow and beets are a healthy food. In the process of digestion the body gets from beets and other root crops a large percentage of vegetable salts and sugar, which is necessary for our best health. Beets and other root crops are health producers.

MANGELS and SUGAR BEETS

Used for Feeding Cattle—Sow Five Lbs. Per Acre

CULTURE—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurtzel. An ever-increasing acreage is being planted for stock beets, because of the wonderful results by feeding them, as shown by the reports of our experiment stations and leading farmers and stockmen. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Hog cholera is prevented by their use. Where many are grown a good drill and cultivator are needed.



Golden Tankard Mangel The best Mangel, small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1 lb., 60c; parcel post paid.

Long Red Mangel Wurzel The well known, large, long variety, grows well out of ground. Color light red. Very productive. Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1 lb., 60c; parcel post paid.

Giant Feeding Sugar Beet A large growing sort, and used for feeding stock; a cross between the mangel and sugar beet. Pkt., 5c; oz., 15c; 1/4 lb., 20c; 1 lb., 60c; parcel post paid.

Klein Wanzleben Sugar Beet

Klein Wanzleben Sugar Beet More extensively grown than any other variety for making sugar; the average yield is from 15 to 20 tons per acre with about 18 per cent sugar. Pkt., 5c; oz., 15c; 1/4 lb., 20c; 1 lb., 60c; parcel post paid.

BROCOLI

A vegetable similar to cauliflower, of less delicate flavor but more hardy. It is cultivated extensively, as it does better than cauliflower, being harder. Pkt., 10c; oz., 50c; 2 ozs., 90c; parcel post paid.

BRUSSELS SPROUTS

A species of the cabbage family, especially desirable for planting during the summer and fall. The "sprouts" are miniature cabbages, growing closely on the stalks of the plant, a small head being formed at each leaf joint. The best time to sow the seed is July and August. When the plants are from four to six inches high transplant to the open ground like cabbage. Pkt., 10c; oz., 40c; 2 ozs., 75c; 1/4 lb., \$1.25; parcel post paid.

March 13, 1921.

Russell-Heckle Seed Co., Memphis, Tenn.

Dear Sirs: I wish to let you know that all the seeds you sent me are all right.

Many thanks for your service.

Yours truly,
MIKE VARDNAK, Brownsville, Ark.

CABBAGE

Our Cabbage Seed is the very best American Long Island grown stock.

Sow in January, February and March for spring setting; in April to June for late crop. Sow in September for transplanting in November for very early spring crop. Transplant to good, rich, clean soil, in 3 to 4 foot rows, 18 to 16 inches between plants, according to variety.

All Head Early This is the earliest cabbage of the large early sorts and cannot be recommended too highly. It is larger than other varieties of its class and grows remarkably uniform. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.60; parcel post paid.

All Season A very popular variety as a second early. The heads are large, solid and keep well in winter. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Copenhagen Market One of the best early round or flat head cabbage. The heads are nearly round, slightly flattened, good size, as large as Early Summer, and will cut with the Charleston Wakefield. Pkt., 5c; oz., 35c; 1/4 lb., \$1.00; lb., \$3.00; parcel post paid.

Charleston Wakefield Exceedingly hardy. Very large solid, pointed, but broad at the base. The leaves are large and slightly waved. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.75; parcel post paid.

Early Jersey Wakefield A favorite early variety for both market gardeners and general use. Head is very compact, medium size, pointed in shape. The standby for the main crop of the extra early sorts. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.75; parcel post paid.

Early Summer Solid round head: comes in just after Wakefield. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Early Flat Dutch Medium early; large flat, solid heads; a reliable and popular variety. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.75; parcel post paid.

Early Drum Head One of the best second early varieties; large, deep heads; solid, uniform in color, size and shape. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Early Spring About four days to a week later than Charleston Wakefield. Of fair size and solidity for so early a flat head sort, and especially suitable to light or well-drained soils, as it heads quite close to the ground. Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.00 parcel post paid.

Danish Ballhead This variety of cabbage is grown exclusively for winter use. The heads are perfectly round, extremely solid, fine grained, bearing shipping well, and will keep far into the spring. Pkt., 5c; oz., 30c; 1/4 lb., 70c; lb., \$1.85; parcel post paid.



Charleston Wakefield Cabbage

Early Winnigstadt This is one of our most popular varieties, especially among the German gardeners. There is no early sort which heads with greater certainty, or more solid; the heads are of good size, cone form, broad at the base, with twisted top, and succeeds the Large York. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Late Flat Dutch This we have always found a reliable and sure header, producing large, round, solid heads, flat on the top, of low growing habit, and few outer leaves. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.



All Head Early Cabbage

Large Late Drumhead Rounder than Flat Dutch, and not quite so short-stemmed. Good, large heads. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Large Drumhead Savoy The best and largest heading of the Savoy Cabbage. Few people seem to know the delicious flavor of Savoy Cabbage. It is far superior to the flat-leaved sorts, and as tender as cauliflower after frost. Should be in every private garden. Pkt., 5c; oz., 35c; 1/4 lb., 75c; lb., \$2.00; parcel post paid.

Mammoth Rock Red The largest heading red cabbage. Pkt., 5c; oz., 40c; 1/4 lb., \$1.00; parcel post paid.

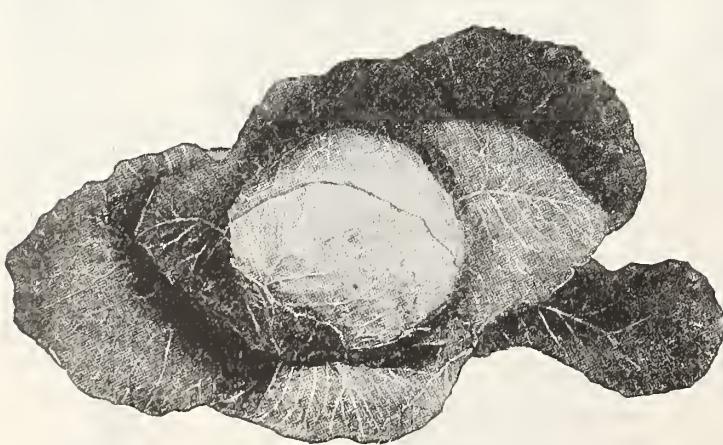
Succession Second early variety, coming in a few days later than Early Summer, but it is nearly double the size of that variety and comes true to its type under most conditions. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.75; parcel post paid.

Surehead Produces large, round flattened heads. The heads are remarkably uniform, very hard, firm and fine in texture; sweet flavor and has but few loose leaves. Keeps well. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

CHINESE or CELERY CABBAGE

Pe-Tsai Has a mild cabbage flavor, very delicate and delicious, and makes delicious slaw; also a very fine salad. When cooked it makes greens delicately cabbage-flavored and not at all like boiled cabbage. It blanches to almost clear white.

The culture is the same as for Winter Cabbage. The seed should be sown for fall crop in June, July to September, half inch deep in the row and rows about 24 inches apart. When the plant has grown up to 5 or 6 inches in height thin to 10 inches apart, keeping the best and pulling up the others. Cultivate well, and when large enough should be blanched by earthing up and tying closely with burlap. The heart is snowy white and very tender and sweet. Not affected by frost. Any good soil is sufficient, but they seem to head up best on rich, black adobe soil. Price, large pkt., 5c; oz., 35c; 1/4 lb., 75c; lb., \$2.50; parcel post paid.



Copenhagen Market Cabbage

CARROTS

Sow from February to September in light, deep, rich soil in drills 12 inches apart; plants should stand 5 inches apart in the rows; fertilize well. One ounce of seed to 100 feet of drill; 4 pounds to the acre.

Danver's Half Long Rich, dark orange colored, good quality. Pkt., 5c; oz., 15c; 1/4 lb., 30c; lb., 80c; parcel post paid.

Half-Long Scarlet One of the best for home or market. Pkt., 5c; oz., 15c; 1/4 lb., 30c; lb., 80c; parcel post paid.

Improved Long Orange Long and tapering; deep orange. One of the best for winter use. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Large White Belgian (For Stock). Grows to an enormous size, making very large yield of most nutritious and fattening feed for stock. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

CHICORY

Sow in April and transplant in May in trenches one foot deep; cover the roots with soil, adding a good layer of manure two or three feet thick. Valuable as a salad as well as a vegetable. Pkt., 10c; oz., 50c; 1/4 lb., \$1.75; parcel post paid.

COLLARDS

CULTURE—This is a variety of cabbage largely grown in the South, where it is extensively used for man and beast. It forms a large, loose, open head, or mass of leaves. Freezing does not injure the crop. Sow seeds in the South from January to May, August to September.

Georgia White Cabbage Called Cabbage Collard on account of its close, bunching growth and light green leaves. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

True Southern The old-fashioned kind, known for a hundred years or more; very tall and long stemmed. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

CORN SALAD or FETTICUS

ONE OUNCE WILL SOW ABOUT 18 SQUARE FEET

Sow in September or October. Large, round-leaved. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.25; parcel post paid.

CRESS or PEPPER GRASS

ONE OUNCE WILL SOW ABOUT 15 SQUARE FEET

A well known pungent salad. Sow at frequent intervals, to keep up a succession, as it soon runs to seed.

Curled, or Pepper Grass Pkt., 5c; oz., 20c; 1/4 lb., 50c; lb., \$1.25; parcel post paid.

True Water Cress Pkt., 10c; oz., 50c; parcel post paid.



Early Snowball Cauliflower

CELERY

Sow in beds in February or March and keep well watered. Transplant from July to October to moist, mucky soil; six inches apart in 12-inch rows. Earth up two or three times. Cover with straw from severe weather, with boards on top. One ounce of seed produces 2,000 plants.

Giant Pascal

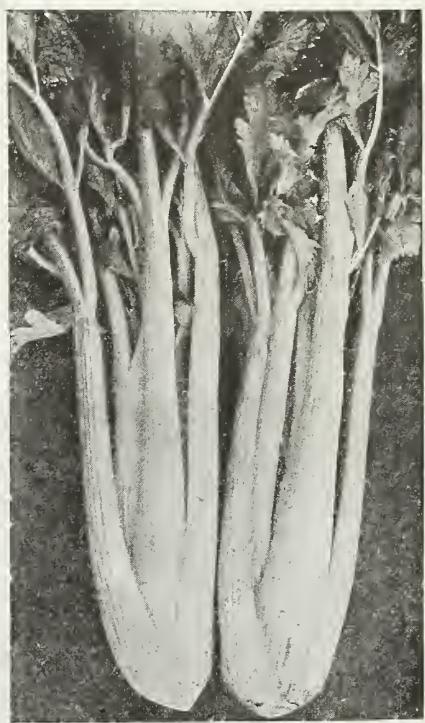
This is a green leaved variety. It blanches very quickly after earthing up and is a beautiful yellowish white color; very solid and crisp, and of a sweet flavor. Pkt., 5c; oz., 30c; 1/4 lb., 75c; parcel post paid.

Henderson's White Plume

One of the best for early use; handsome; good quality; blanches easily. Pkt., 5c; oz., 30c; 1/4 lb., 75c; parcel post paid.

Golden Self-Blanching

Early, large, crisp, solid, good flavor. Pkt., 5c; oz., 40c; 1/4 lb., \$1.00; parcel post paid.



Giant Pascal Celery

Large White Solid A favorite strong-growing variety; hardy, solid and crisp. Pkt., 5c; oz., 30c; 1/4 lb., 75c; parcel post paid.

Celeriac, or Turnip Rooted Celery Pkt., 5c; oz., 35c; 1/4 lb., 75c; parcel post paid.

CHERVIL

Used for flavoring or garnishing, and is more beautiful than Parsley. Sow in early spring in rich soil, and when plants are large enough, transplant to a foot apart.

Price: Pkt., 10c; oz., 30c.

CAULIFLOWER

Cultivate like cabbage. Sow in January or February for early crop; May or June for late. Transplant to rich, moist soil; manure heavily and water freely. When heading begins fasten leaves over top of head to whiten. One ounce of seed makes 2,000 plants. We handle only the very best quality seed that will make a head.

Early Snowball A sure header; large, solid, perfectly white and good quality. Pkt., 10c; 1/4 oz., 50c; oz., \$1.50; parcel post paid.

Dry Weather Cauliflower This new cauliflower is especially adapted for growing in dry locations, when other varieties fail. It produces large, solid heads. Pkt., 10c; 1/4 oz., 50c; oz., \$2.00.

Indianola, Miss., 11-15-1921.

Russell-Heckle Seed Co.,
Dear Sirs: Lookout Mountain Seed Potatoes came in O. K. Check for \$3.70 to cover.

Your motto will win every time to a man who is straight—"Treat 'Em Right." The only man that I love to pay is the one who treats "em right."

Yours truly,
O. C. STUBBLEFIELD.

SUGAR and GARDEN CORN

For early market, plant the garden varieties latter part of March. Sugar corns should not be planted until April, then at intervals of two weeks for a succession. Sugar and Garden Corns planted in July will mature late roasting ears. Plant 4 to 8 quarts to the acre. The garden varieties listed below are as follows: Early Surprise, Early Adams, Extra Early Adams, and Improved Adams. Plant these first.

Golden Bantam Extra early, sweet, tender and delicious. Is becoming each year more popular because of its extreme early character, vigorous growth and delicious flavor. It is pronounced by many planters the finest extra early corn ever grown. The dry grain is entirely free from any flinty glaze, it is exceptionally hard and firm, hence can be planted earlier than any other true sweet corn. The stalks are dwarf, in habit, growing to a height of four feet and can be planted close together in the row. They bear two or three good small ears to the stalk. The grains are yellow. Golden Bantam is truly delicious. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

Country Gentleman Small cob; long, slender, white grains. This variety has a small, white cob, densely covered with irregular rows of very long, slender, white grains of excellent quality, ears seven to nine inches long; stands from six and one-half to seven feet high. Well adapted for canning as well as the home garden and market and by many regarded as the best of the late varieties. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

Early Surprise A splendid early white corn, coming in directly after Adams Early, but much larger. Has a deep white, soft grain. Pkt., 10c; 1/2 pt., 15c; pt., 25c; qt., 45c; parcel post paid. Not prepaid: 1/2 pt., 10c; pt., 20c; qt., 35c.

Early Adams About a week later than Extra Early, but has larger ears; small stalks; earlier and harder than sugar corn; good for table use. Like the above, is hardy, and can be planted early. Pkt., 10c; 1/2 pt., 15c; pt., 25c; qt., 45c; parcel post paid. Not prepaid: 1/2 pt., 10c; pt., 20c; qt., 35c.

Extra Early Adams Earliest white corn; small ear and stalk. Same size, type and style as next below. Hardest and earliest corn. It is not a Sugar Corn, but is grown for early use. Ears short; kernels very white. Pkt., 10c; 1/2 pt., 15c; pt., 25c; qt., 45c; parcel post paid. Not prepaid: 1/2 pt., 10c; pt., 20c; qt., 35c.

Improved Adams A fine variety, slightly larger than Early Adams and one week later. Sells well on account of the size of the ear. Pkt., 10c; 1/2 pt., 15c; pt., 25c; qt., 45c; parcel post paid. Not prepaid: 1/2 pt., 10c; pt., 20c; qt., 35c.

Howling Mob Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness and is a desirable gardeners' and canning variety. This variety originated at Toledo, Ohio, and its queer but appropriate name has reference to the loud and clamorous demand for the corn when brought to market. The stalks are usually about 5 feet in height and produce two splendid ears to a stalk early in the season. The ears are 7 to 9 inches in length and are well covered with a heavy husk, affording protection from the green worms which are destructive. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 45c.

Henderson's Early Sugar Early, good-sized ears and deep grain; very productive. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

Kendall's Early Giant Kendall's Early Giant is the largest sweet corn known and is very productive. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

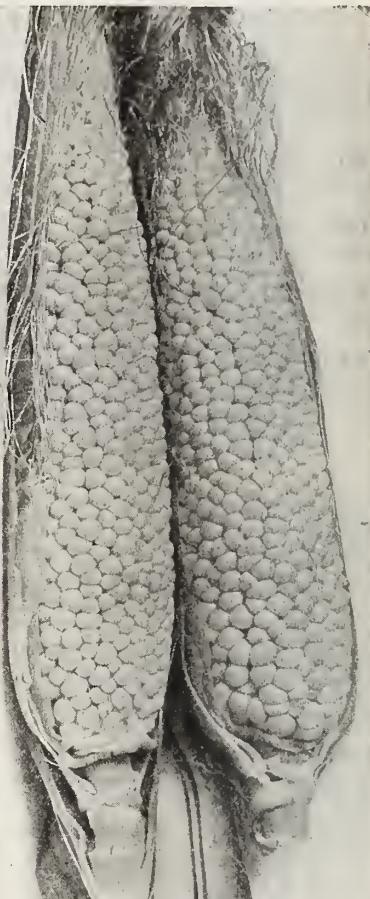
Mammoth Sugar The mammoth ears are thick through, with many rows of large, broad grains of excellent quality. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

Stowell's Evergreen Now recognized everywhere as the standard variety, both for home and market, and is the general favorite. The ears are of a large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all sorts. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.

Burpee's White Evergreen This produces large, handsome ears well filled with deep, pure white grains of delicious sweetness. Pkt., 10c; 1/2 pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: 1/2 pt., 15c; pt., 25c; qt., 40c.



Early Surprise



Country Gentlemen

CUCUMBERS

For very early crop plant in hot-beds; for later crop plant from April to July, in rich, well-manured hills 4 feet apart, 10 seeds in hill; thin to two or three plants. One ounce to 50 hills.

Burpee's Earliest White Spine An extra early cucumber of the White Spine family; it is smooth, straight and very handsome in appearance; skin is dark; flesh is a greenish white, very firm and crisp. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.50; parcel post paid.

The Davis Perfect An excellent variety both for outdoor and forcing purposes; unequalled for shape, quality, color and productiveness. Pkt., 5c; oz., 10c; 1/4 lb., 35c; 1 lb., \$1.00; parcel post paid.

Early Fortune One of the best selections of the White Spine type, is becoming very popular among the market men of the South. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25; parcel post paid.

Early Green Cluster A very early variety, bearing in clusters. Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., \$1.00; parcel post paid.

Everbearing This variety is of small size; very early, enormously productive, and valuable as a green pickle. Its peculiar merit however, is the vines continue to flower and produce fruit until killed by frost. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25; parcel post paid.

Jersey Pickle A favorite with pickle growers and commercial market gardeners; good for table use, very productive. Fruit small and uniform in size. Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.25; parcel post paid.

Gherkin, or Burr Used only for pickling. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25; parcel post paid.

Improved Early White Spine An improved strain of the White Spine; good for forcing or outdoors. Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., \$1.00; parcel post paid.

Improved Long Green A fine bearer of superior quality. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25; parcel post paid.

Japanese Climbing This is a strong and vigorous grower; fine for pickling. Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.50; parcel post paid.



Early Fortune Cucumber

GARLIC

The sets should be planted either in early spring or fall in well-enriched soil, the rows 1 foot apart, and about 3 inches between the plants in the row. Harvest same as onions. Sets, 1/4 lb., 20c; 1 lb., 50c; parcel post paid.

HERB SEED

Parcel post paid.

Pkt.

BASIL, Sweet—For flavoring soups.....	5c
DILL, Mammoth—Used for flavoring pickle.....	5c
MARJORAM, Sweet—Used in seasoning meats.....	10c
SAVORY, Summer—Used as a culinary herb.....	10c
SAGE, Broad Leaved—A popular flavoring plant.....	10c
THYME—Much used for seasoning.....	10c
LAVENDER—Used for its odor.....	10c
ROSEMARY—For seasoning meats and soups.....	10c

HORSE RADISH

Plant in rows 18 inches apart, putting the sets 1 foot apart. Doz., 40c; 100 for \$2.50; parcel post paid. Not prepaid, doz., 30c; 100 for \$2.00.

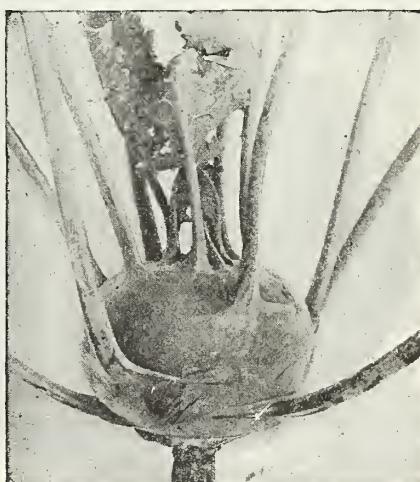
KALE

Sow from 2 to 3 pounds to the acre, one ounce to 200 feet of drill. Make excellent greens for spring and winter use. Sow in March or September in drills or broadcast.

DWARF GREEN CURLED—Very hardy, leaves curled. The best variety for fall sowing. Stands all winter. Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c; parcel post paid.

DWARF CURLED SCOTCH—Excellent for spring planting. Leaves light green, very curled. Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50; parcel post paid.

TALL CURLED SCOTCH—A beautiful curled tall growing variety. Also fine for spring planting. Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50; parcel post paid.



Early White Vienna Kohl-Rabi

ENDIVE

One ounce will sow 200 feet of drill.

For first crop sow about the middle of May, and for succession in June and July. When the plants are two or three inches high, thin them out or transplant into moderately rich and rather light soil, one foot apart. When nearly full grown, and before they are fit for the table, they should be blanched by tying the leaves loosely together.

Black Beauty Egg Plant The hardest variety grown; beautifully curled. Pkt., 5c; oz., 20c; 1/4 lb., 50c; 1 lb., \$1.50; parcel post paid.

GOURDS

DIPPER GOURDS—Pkt., 5c. **NEST EGG GOURDS**—Pkt., 5c. **SUGAR TROUGH**—Pkt., 5c. **DISH RAG OR LUCCA**—Pkt., 5c.

KOHL-RABI
EARLY WHITE VIENNA—This is the best and earliest variety for table use. Pkt., 5c; oz., 25c; 1/4 lb., 75c; 1 lb., \$2.25; parcel post paid.

LEEK

LONDON FLAG—Broad leaves, of strong and vigorous growth. Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1 lb., \$1.75; parcel post paid.

LETTUCE

One ounce will produce 3,000 plants. For early use sow under glass in January or early February, and transplant as soon as the ground can be nicely worked. Sowing may be made in the open ground from April to middle of August, every 2 or 3 weeks for succession.

Burpee's Wayahead A superb new heading lettuce. Outer leaves light green, and the inner leaves blanch to a rich butter yellow tint; the heads are very large and solid. Pkt., 5c; oz., 20c; 1/4 lb., 50c; lb., \$1.25; parcel post paid

Big Boston This fine variety is extremely popular for outdoor culture in the spring and fall, and for coldframe forcing. The large flattened heads are compact, solid, and crisp. The plants are large, very hardy, and vigorous. The broad leaves are comparatively smooth, wavy at the edge, thin and crisp. They are bright, light green in color, the head slightly tinged with reddish brown. The quality of this lettuce is excellent, and we recommend it as one of the best home-garden lettuces on account of its easy culture. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.25.

Burpee's Iceberg Lettuce The unusual solidity of the heads is insured by the large white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center which is consequently thoroughly blanched. Pkt., 5c; oz., 20c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Black Seeded Simpson Produces a compact mass of leaves, light color; nearly double size of ordinary Simpson. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.00; parcel post paid.

Cos or Romaine The best of the celery lettuces; forms large, light green, well folded heads of upright growth, and popular for its crispness and mild flavor. Pkt., 5c; oz., 20c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

Early Curled Simpson Head; crisp and tender; rapid growing; one of the best curled varieties. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.00; parcel post paid.

Mignonette Small, solid heading, never fails; edged with reddish brown. The flavor is fine and the leaves crisp. Pkt., 5c; oz., 20c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

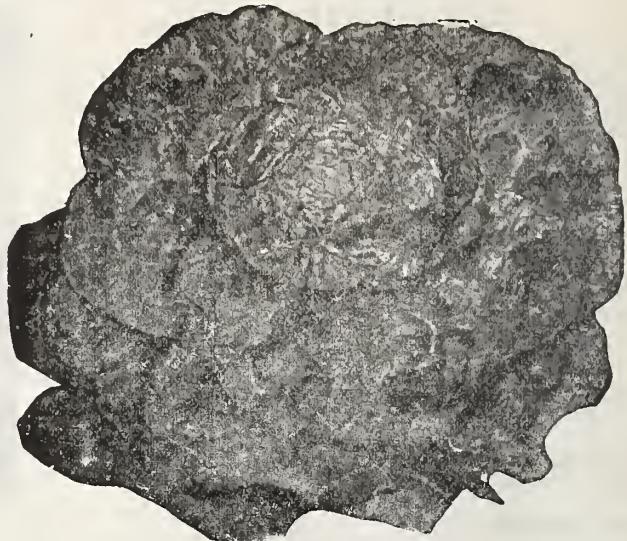
Prize Head Solid heading, leaves edged with reddish brown. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.00; parcel post paid.

May King One of the best head lettuce; stands the hot midsummer sun without burning. Heads are very solid, large and of a most desirable light green color. Pkt., 5c; oz., 20c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

Improved Hanson One of the best summer lettuce. Has large, solid, compact heads, tender and crisp. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid

Large White Cabbage Head Does well for early spring, summer and fall planting. Makes fine, large, solid heads with blanched hearts. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Wonderful New York This splendid mammoth heading and long-keeping variety has been grown to weigh 6 lbs. to the head; frequently weighs 2 or 3 lbs. Heart is solid, of light green color, very sweet, tender and crisp. Long standing, perfect heads may be cut from the same bed for many weeks. Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.50.



Big Boston Lettuce

MUSK MELON or CANTALOUPE

Plant in hills 5 feet apart in light, rich soil, well manured; 10 seeds to hill, thin to 4 plants. Cultivate well. Pinch off ends of vine as they begin to blossom, which will increase the yield. One ounce to 60 hills.

Banana Long, shaped like a banana; has a most delicious flavor. Pkt., 10c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Baltimore One of the best of cantaloupes for main crop. The flesh is thick, of a beautiful deep rich green, color, and of excellent flavor. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Emerald Gem The skin is smooth and deep emerald color; A splendid home garden-melon. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Honey Dew Melon A splendid new variety, rind dull white when ripe. The flesh is a rich green, very sweet and delicious flavor. Its name has been well chosen, as it is about as sweet as honey. The average size is about six inches in diameter and they weigh five to six pounds. The skin is smooth with little netting.

Green Flesh Honey Dew.....Pkt., 5c; oz., 20c; 1/4 lb., 50c. **Pink Meat Honey Dew**.....Pkt., 5c; oz., 20c; 1/4 lb., 50c.

Tip Top A yellow fleshed variety of large size and splendid quality. Nearly round, deeply ribbed, moderately netted; flesh is bright salmon, thick, and of good flavor. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Rocky Ford One of the most popular. Just right size for restaurant and hotel service; flesh is green, thick, luscious, very sweet. It is netted and ribbed, and ripens early. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

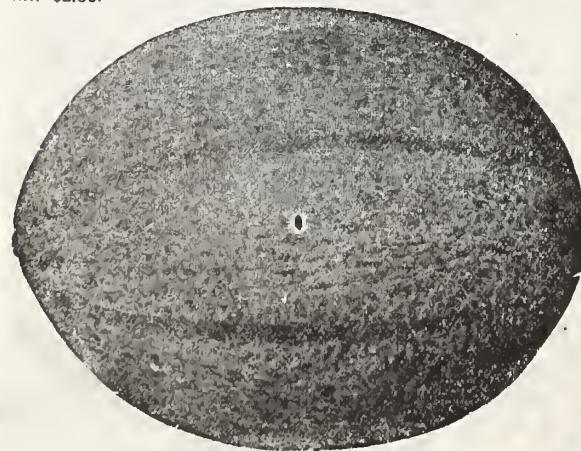
Mammoth Rocky Ford The general type of this melon is similar to the regular Rocky Ford, but they grow somewhat larger in size, making it a splendid variety for market. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Early Green Nutmeg An early variety of medium to a small size; nutmeg in shape and thickly netted; very productive and of first-class quality. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Mango Melon, or "Vine Peach" Size, shape and color of an orange, fine for preserving or pickling. Pkt., 5c; oz., 20c; parcel post paid.

Pink Meat Rocky Ford This variety is quite similar in appearance to an Eden Gem type of Rocky Ford, being beautifully netted, but the flesh is pink. Its shipping qualities are excellent, quality all that can be desired. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.25; parcel post paid.

1922 CALENDARS—On receipt of five names of people in your community, who would be interested in receiving our Annual Seed Catalog, we will mail you one of our 1922 Calendars, which is very complete in every detail.



Rocky Ford Cantaloupe

WATERMELONS

One ounce to forty hills; three or four pounds to the acre. Drop in the middle of spring, in hills six to eight feet apart, six to ten seeds, one inch deep, and thin to three best plants. Generally about the middle of April is the proper time to plant melons in this section. Price, any variety, 3 packets for 10c; parcel post paid.

Angel Kiss Flesh is of the deepest indescribable crimson; delightfully sweet and refreshing. It grows from medium to very large, very long in shape, and nearly white in color. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Black Diamond Immense in size, and grows to average 75 to 90 lbs.; rich, dark green, uniform, round to oval shape; flesh deep red, of fine quality. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

Burpee's Early Fordhook This is the earliest large-fruited melon in cultivation, often weighing thirty to forty pounds each; has deep green skin and is an excellent shipper; the flesh is light red, sweet and of splendid quality. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Florida Favorite Oblong in shape, growing to a very large size; rind dark green, striped with lighter; highly prized on account of its delicious flavor; seed light colored. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

Georgia Rattlesnake A large striped variety of oblong shape; flesh scarlet and of superior quality. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

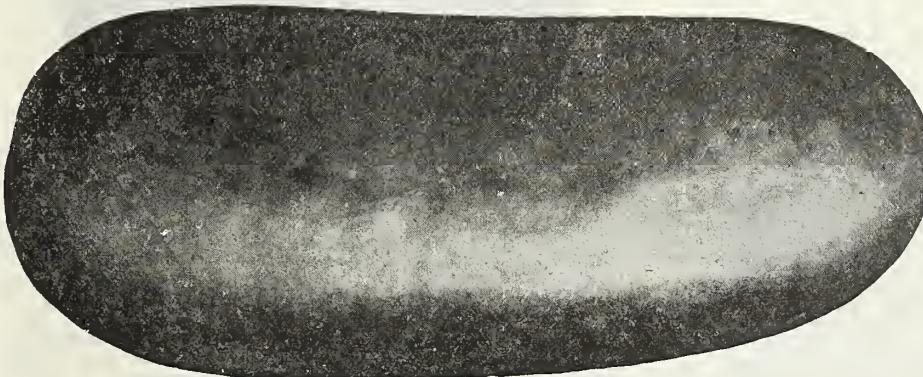
Golden Honey The flesh is bright, golden yellow, as sweet as sugar. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Harris' Earliest A new extra early variety. It is the melon to plant for profit. Very good size, weighing from 15 to 20 lbs.; flesh bright red, juicy and sweet. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Halbert Honey The melons average eighteen to twenty inches long and are full or bluntly rounded at both ends. The skin is a dark, glossy green. The flesh is a beautiful crimson, the rich coloring and luscious quality extending to the thin rind. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Kleckley's Sweet The best melon grown. Oblong, very large, dark green, faintly striped, very sweet, entirely stringless; very prolific. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Monte Cristo Unsurpassed for home use or near markets. Very much like Kleckley Sweet in size and color. Flesh very bright, rich red, exceedingly sweet, crisp and tender, never having hollow or pithy center when ripe. Will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.



Kleckley's Sweet Watermelon



TOP ROW—Angel Kiss, Florida Favorite, Georgia Rattlesnake
BOTTOM ROW—Burpee's Early Fordhook, Harris' Earliest, Black Diamond Watermelons

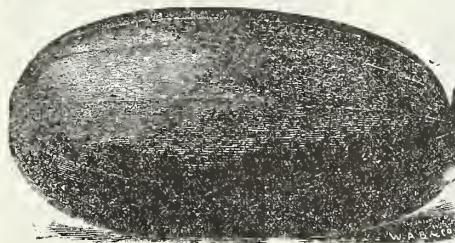
Red Seeded Citron Fruit round and smooth. Is not eaten raw, but is used for making a very clear, transparent preserve of peculiarly fine flavor. Flesh white and solid. Pkt., 5c; oz., 10c; 1/4 lb., 40c; lb., \$1.00.

Sugar Stick A large, light green or grayish melon of oblong form, two feet in length, and will average 30 lbs. Flesh red, very sweet and tender. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Tom Watson Long, green and very prolific. The melons are uniformly large, running from 30 pounds to 40 pounds. The flesh scarlet, of extra fineness and sweetness, entirely stringless, fairly melts in your mouth. The rind is exceptionally strong, making it an excellent shipper. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.



Tom Watson



Tom Watson Extra

A square deal is positively given every customer who purchases his seed from us, and on account of changing prices that are prevailing we will undertake to protect our customers by giving them every advantage possible.

Weiner, Ark., 3-28-21.
Russell-Heckle Seed Co.,
Memphis, Tenn.

Gentlemen: Received plants and seeds. Thank you for sending them. Both are in good condition. Please quote us prices on cowpeas; Lookout Mountain Potatoes. June delivery.

Respectfully yours,
DeGOOD MERC. CO.

1922 CALENDARS

On receipt of five names of people in your community, who would be interested in receiving our Annual Seed Catalog, we will mail you one of our 1922 Calendars, which is very complete in every detail.

MUSHROOM SPAWN

Mushrooms can be grown in cellars, in sheds, in hotbeds, or sometimes in open air. Fermenting horse manure at a temperature of about 70 degrees, mixed with equal weight of fresh sod loam, is made into beds the size required, 8 inches deep. In this bed plant the broken pieces of spawn, 6 inches apart, covering the whole with 2 inches of light soil, and protect from cold and rain. The mushrooms will appear in about 6 weeks. Water sparingly with lukewarm water. Per brick, 45c; 5 bricks, \$1.75; parcel post paid. By freight: Per brick, 35c; 5 bricks, \$1.50.

MUSTARD

Sow from February to April or September and October, broadcast or in drills, 6 inches apart. Cut when about 3 inches high. One ounce seed to 80 feet drilled; 6 pounds to acre broadcast.

Chinese Mammoth Not curled as the Southern Giant; leaves are very broad and smooth. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c; parcel post paid.

Elephant Ear A single plant fills a bushel basket; leaves tender at all times. Your garden won't be complete unless you try some of this new mustard. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c; parcel post paid.

Southern Giant Curled Leaves are large, light green with yellowish tinge, much crimped and frilled at the edges. Very succulent, pungent and of sweet flavor. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 45c; parcel post paid.

OKRA or GUMBO

One Ounce Will Plant 100 Hills

This plant is extensively cultivated for its green pods, which are used in soups and stews, and are very wholesome and nutritious. Sow about the first of May, in drills three feet apart, and thin out the plants to one foot apart. Soak seed in water 12 hours—they germinate easier.

Dwarf Green Very early; pods green and tender. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 55c; parcel post paid.

Perkins' Mammoth Pod This variety is about three feet high, very early and productive. Pods deep green, very long, slender, slightly corrugated, very tender and of good quality. Pkt., 5c; oz., 15c; 1/4 lb., 25c; lb., 60c; post paid.

White Velvet This okra takes its name from the smoothness of its pods, which are round, differing in this respect from the old sort. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 55c; parcel post paid.

Tall, or Long Green Long ribbed pods; very productive. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c; parcel post paid.



White Velvet Okra

ONION SEED

Sow in January or February in hotbeds or later in the open. Transplant to 12-inch rows, 5 inches apart, in very rich soil and cultivate well. Sow six pounds seed to the acre. For sets, sow 60 to 80 pounds to acre in broad rows. Dig and dry when tops die.

Large Red Wethersfield Medium early; skin is purplish red; flesh purplish white; a general favorite. Pkt., 5c; oz., 15c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

Large Red Globe Grows to good size, rich red color with small neck; a fine keeper. Pkt., 5c; oz., 15c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

Prize Taker Very large and solid; skin rich yellow; flesh pure white, sweet, mild, tender. Pkt., 5c; oz., 15c; 1/4 lb., 60c; lb., \$1.50; parcel post paid.

Red Bermuda Similar to the White. Choicest Teneriffe-grown seed. Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.50; parcel post paid.

Southport White Globe Handsome globe-shaped bulbs; the flesh is firm, fine grained, of mild flavor; keeps well. Pkt., 5c; oz., 20c; 1/4 lb., 70c; lb., \$2.25; parcel post paid.

White Bermuda This is the early onion, imported from Bermuda in early spring; grows in the North, but smaller than farther south; mild and sweet; our seed is the true Teneriffe-grown. Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.75; parcel post paid.

White Silver Skin Pure white; mild flavor; best for growing sets. Pkt., 5c; oz., 20c; 1/4 lb., 70c; lb., \$2.00; parcel post paid.

Yellow Globe Danvers Globe shaped; large; keeps well; a standard for main crop. Pkt., 5c; oz., 15c; 1/4 lb., 60c; lb., \$1.40; parcel post paid.

Australian Brown Early; onions medium; flattened; beautiful amber brown; a splendid keeper. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.25; parcel post paid.

ONION SETS

Prices are subject to market fluctuations. When you want large quantities ask for market prices. Thirty-two pounds constitute a bushel.

Plant 4 to 6 inches apart in 12 to 24-inch rows (except Potato Onions, which should be in 2-foot rows). Plant in spring or fall in fine rich soil, well manured.

Red Wethersfield Qt., 20c; gal., 50c; peck, \$1.00; parcel post paid.

Yellow Danvers Qt., 20c; gal., 50c; peck, \$1.00; parcel post paid.

White Silver Skin Qt., 25c; gal., 75c; peck, \$1.25; parcel post paid.

White Multiplier Sets Qt., 40c; gal., \$1.25; peck, \$2.00; parcel post paid.

Yellow Potato Onion Sets Qt., 35c; gal., \$1.00; peck, \$2.00; parcel post paid.



Prize Taker

PRICES ON ONION SETS BY BUSHEL

Account catalog going to press before spring market has been established, we are unable to quote onion sets by the bushel on this page. For current prices see Special Green Ink Price Sheet enclosed.

R. H. CO.'S GARDEN PEAS

*Wrinkled sorts.

CULTURE—The pea is hardy and endures cold well, either in or above the ground. It is best to sow the earliest varieties as soon as possible (February), in warm, light soil, prepared the previous autumn or winter. The main crop may be sown about two weeks later and on somewhat heavier soil. Sow Peas in drills about 2 to 3 inches deep; in rows $2\frac{1}{2}$ to $3\frac{1}{2}$ feet apart. In garden culture sow in double rows 10 inches apart. One quart will sow 100 feet of drill. Avoid fresh manure or very rich soil or too rank vine growth will result. All wrinkled varieties are marked.* These should not be planted until March.

Gradus, or Prosperity* Ripens early; vines about 3 feet almost as large as those of Telephone and filled with peas of the finest quality, sweet and tender. Pkt., 10c; $\frac{1}{2}$ pt., 25c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

Bliss Everbearing* A good variety, that continues bearing a long time. A general favorite. Height, 3 feet. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 50c.

Large White Marrowfat Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 50c; parcel post paid. By freight: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Telephone* This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. The vines are tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches long, attractive bright green, filled with very large peas which are tender, sweet and of excellent flavor. Pkt., 10c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c.

First and Best Early, productive and hardy with strong, vigorous vine, which is light in color and uniform in growth, $2\frac{1}{2}$ feet in height. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

Champion of England* It grows 4 to 5 feet high and requires support, but fine quality and large crop production more than repays any extra labor required. A strong, vigorous grower and continues to bear for a long time. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 55c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 45c.

McLean's Little Gem* A dwarf, prolific, green wrinkled marrow; habit similar to the Tom Thumb. It has all the sugary flavor of the late wrinkled peas. Height, 1 foot. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

Nott's Excelsior* The sweetest and most prolific of all the early dwarf peas; outyields Premium Gem or American Wonder. The best sort for the market or home garden. The vines are vigorous and very prolific, while the pods are closely packed with large peas of very fine flavor. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

American Wonder* The earliest of the dwarf wrinkled sorts, vigorous and productive, with dark, luxuriant foliage. Vines dwarf, 12 inches high, of compact growth. Pods $2\frac{1}{2}$ inches long, round, appearing almost square, and crowded to the end with Peas of excellent quality. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

Mammoth Melting Sugar (Edible pod or sugar pea, 5 feet). Large, broad pods. Cook pod like snap beans. Very sweet and tender. Pkt., 15c; $\frac{1}{2}$ pt., 25c; pt., 40c; qt., 70c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c.

Prices on all Garden Peas by peck and bushel are quoted on Special Green Ink Price Sheet enclosed.

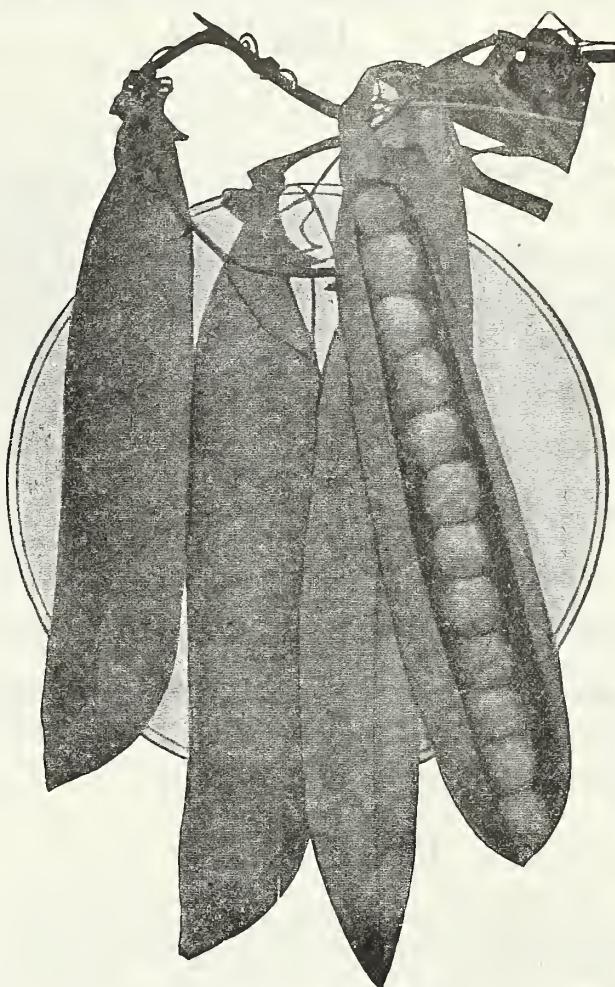
PARSLEY

CULTURE—Soak seed in water for a few hours and sow in rich soil early in spring in rows a foot apart and cover lightly. Parsley is slow to germinate and is sometimes 3 or 4 weeks in coming up. One ounce will sow 150 feet of drill. Sow in March and April, also in August.

Champion Moss Curled More densely crimped and curled than some other sorts. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 90c; parcel post paid.

Double Curled Compact, very curly and finely cut; bright green color. This is a most popular variety for Southern markets and is planted extensively, as it always finds a ready market. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 80c; parcel post paid.

Plain, or Single Leaves are flat, deeply cut, and dark green. Plain leaves, excellent flavor, very extensively grown for bunching into soup bunches; an excellent sort. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 80c; parcel post paid.



Alaska Garden Peas

Alaska The earliest of all the extra early sorts; vines about 2 feet in height. The pod is about 3 inches long well filled with uniformly round peas. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 30c; qt., 50c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 25c; qt., 40c.

Ameer A new and valuable strain of the popular Alaska pea, the distinctive superiority being that it makes much larger pods and is more prolific. The vines grow 24 inches. Pkt., 10c; $\frac{1}{2}$ pt., 20c; pt., 35c; qt., 60c; parcel post paid. Not prepaid: $\frac{1}{2}$ pt., 15c; pt., 30c; qt., 50c.

PARSNIP

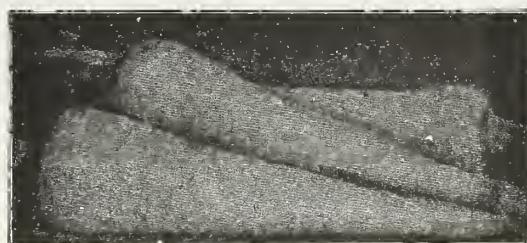
CULTURE—Work the soil very deep and pulverize the surface thoroughly.

Sow the seed in early Spring, $\frac{3}{4}$ of an inch deep, in rows 12 to 18 inches apart.

As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 6 inches apart in the row.

One ounce of seed for 200 feet of row; 5 pounds seed required for an acre.

Sugar, or Hollow Crown The best for table use; a vegetable of merit, easily raised and of great productiveness. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., \$1.00; parcel post paid.



Sugar, or Hollow Crown

PEPPER

CULTURE—One ounce will produce about 1,000 plants. For early plants, sow in hotbeds the latter part of January, and transplant to open after all danger of frost is over, in rows 3 feet apart, 15 to 18 inches apart in the rows. Cultivate well. Do not sow hot varieties near mild ones, as they mix very easily.

Bell, or Bull Nose A large early sort, of mild flavor. Plant is vigorous and compact, ripening the fruit uniformly. Fruits are large, with thick, mild flesh of excellent quality. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; parcel post paid.

Bird's Eye, or Creole Very hot; used for pepper vinegar. Pkt., 10c; oz., 60c; parcel post paid.

Chinese Giant Very large size, often measuring 6 inches in diameter. The plant is very dwarf, but vigorous, and a fair yielder, but late maturing. Fruit is brilliantly colored, mild and sweet. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; parcel post paid.

Crimson Giant Very large, sweet pepper. It is a strong grower and much more productive than the Chinese Giant. Matures early. The flesh is thick, very mild and sweet. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; parcel post paid.

Long Red Cayenne A well known medium early variety, with extremely strong and pungent flesh. Bears long slender twisted pods, bright red when ripe. Pkt., 5c; oz., 40c; 1/4 lb., \$1.25; parcel post paid.

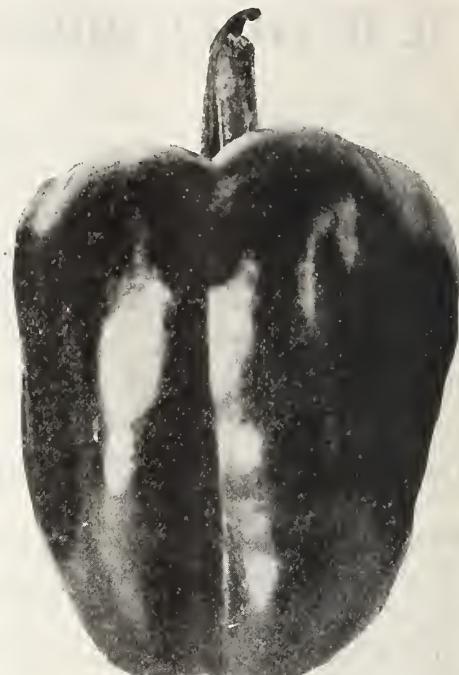
Pimento Pepper A delicious variety, most all meat. Very mild and of elegant flavor. Requires rich soil and plenty of moisture to make fruits grow to perfection. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; parcel post paid.

Red Chili Small and very pungent; used for chili sauce. Pkt., 10c; oz., 60c; parcel post paid.

Royal King A new variety of extra large size. Rich, glossy green turning to brilliant crimson when ripe. Flavor is sweet and mild. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; parcel post paid.

Ruby King A fine variety, very large and attractive. Plant grows to about 2 1/2 feet high, is vigorous and productive. Fruits are 4 to 5 inches long, bright red when ripe. One of the best for mangoes or stuffed peppers. Pkt., 5c; oz., 50c; 1/4 lb., \$1.25; parcel post paid.

Tobasco Very pungent and strong; a splendid cropper. Pkt., 10c; oz., 60c; parcel post paid.



Chinese Giant Pepper

Laura Town, Ark., May 30, 1919.
Russell-Heckle Seed Co., Memphis, Tenn.

Gentlemen: Enclosed find my check for \$854.25 in full payment of all that I owe.

Accept my thanks for the good service that you have given me on deliveries and good sound seed.

Yours very truly, JNO. K. GIBSON.

PUMPKINS

CULTURE—The pumpkin under good care bears abundantly, and furnishes a great amount of palatable food for cows, pigs, etc. Several of the fine flesh varieties are also used for culinary purposes. They may be grown as a field crop. Plant in hills 8 feet apart each way, and any time after the first of May. Avoid planting near other vine crops, as they will hybridize, and damage that crop. One ounce will plant about 25 hills, 4 pounds to the acre.

Connecticut Field A large yellow variety, hard shell, excellent for field culture. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

Cushaw Very productive, good for table and stock feeding. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.10; parcel post paid.

Japanese Pie The flesh is very thick, nearly solid; the seed cavity being very small in one end of the pumpkin; fine grained, dry and sweet. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Kentucky Yellow Field A large variety of good quality. Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 40c; parcel post paid.



Kentucky Yellow Field Pumpkin

King of the Mammoth Of extraordinary large size; good for growing for prizes; skin is orange colored, with bright yellow flesh of fine quality. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Sugar or Pie Deeply ribbed; outer color of the skin dark green; almost black; one of the best keepers, highly prized. Pkt., 5c; oz., 15c; 1/4 lb., 35c; lb., \$1.00.

Tennessee Sweet Potato Of medium size, creamy white, with light green stripes and fine grained, brittle flesh. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Grafted and Budded Pecans

Plant 35 to 50 feet apart.

Paper Shell Grafted Pecans The grafted pecan tree will bear in five years after planting. They produce those large nuts that retail at 50c to 75c per lb. Why waste time with the seedlings, which seldom bear under ten years? Six or eight acres in the grafted pecans will insure a good income every year.

Important—Do not allow the roots of a pecan tree to dry out or to be exposed to sun and air. Immediately upon receipt of the trees, wet them down thoroughly and plant with the least delay. Keep the roots wet while in the field before planting; wrap with bag or burlap, well soaked. We can furnish the best large, thin shell varieties, Stuart, Success, Schley, Delmas and Pabst at the following prices:

Size	Each	Ten
18-24-in.	\$1.00	\$ 8.00
24-36-in.	1.25	10.00
36-48-in.	1.50	12.00
48-60-in.	2.00	16.00

All grafted and budded pecan trees will be shipped from our growers. They cannot be included in other bundles of trees.

MISTAKES

We make them—so does almost everyone—and we will cheerfully correct them if you write us.

RUSSELL-HECKLE'S IRISH SEED POTATOES

Will mature in 70 to 90 days, according to the variety. Cut two eyes, drop them every 15 inches and make rows 3 feet apart; cover eyes 2 inches; plant in February, March and April for early crops.

Use plenty of well rotted manure with either Armour's Truck Guano or Cotton Seed Meal. This should be put down in the furrow and then throw a little dirt on the top of it. Do not let the potatoes come in contact with the fertilizer as they will be very liable to rot. Keep well cultivated. One peck will plant 125 feet of row; 7 to 10 bushels will plant an acre, depending on the size of the seed.

On account of market fluctuations we are unable to name exact prices. Will be pleased to have you write during the month of February or later; will then quote prices for prompt or future shipment. All prices quoted are F. O. B. Memphis.

Bliss Early Red Triumph Extremely prolific and extra light red; medium size. Growth very uniform, nearly round. Flesh white; mealy when cooked. This potato is in exceedingly high favor on account of its earliness and productiveness. Eyes slightly depressed, skin smooth. Its beauty, quality, extreme earliness and great productiveness make it very profitable. Price, Northern Red Triumphs: Peck, 75c, by express only. Tennessee 2nd crop Red Triumphs: Peck, \$1.00, by express only.

Early Ohio A standard early potato and a good one. Does well in all soils; is very early, oval in shape, has pink skin and shallow eyes. It is a splendid keeper and is very largely planted in the South for shipping to Northern markets. Some early varieties will yield edible potatoes about as soon as the Early Ohio, but their tops will be green for days after the Early Ohio have fully ripened. The Early Ohio is fully two weeks ahead of the Early Rose, and is a general favorite with potato growers and marketmen alike and is the most profitable potato than can possibly grow. Maturing early, it brings the highest prices. Peck, 90c; by express only.

Irish Cobbler This is a most excellent variety for both Northern and Southern planting. A large potato, round and is slightly flattened; flesh white and cooks dry and floury. An excellent variety for both early and late



Bliss Early Red Triumph Potatoes

planting. A good keeper, heavy yielder and possibly the most popular of all early and late varieties. Selected stock. Price, Northern Grown Irish Cobblers: Peck, 75c; by express only. Tennessee 2nd crop Irish Cobblers: Peck, \$1.00; by express only

New York Early Rose Matures early; excellent quality. By express: Peck, 70c.

New York Burbank Late; long; white; good table qualities. By express: Peck, 70c.

Lookout Mountain Very prolific, late; long keeping variety, for planting in June; grows large tubers, pure white; smooth, of good quality. No other variety stands our hot climate as well. We book orders now for shipment in June. Prices on application.

FOR FALL PLANTING Cold Storage Potatoes

We will have Lookout Mountain, Red Triumph and Irish Cobbler Seed Potatoes in cold storage for late planting, in July and August. Write for prices in June and July.

PRICES—Account catalog going to press before market has been established on Irish and Sweet Potatoes, we are unable to quote quantity prices on this page. For current prices, see Special Green Ink Price Sheet enclosed.

SEED SWEET POTATOES

All quotations here given are packed F. O. B. Memphis. Purchaser must pay carrying charges. Prices subject to market changes, and sold at the rate of 45 lbs. to the bushel.

Nancy Hall Skin yellow; meat, which is clear, amber color, is as sweet as honey. By express: Peck, 75c.

Bunch Yellow Yam Finest quality yellow skin and flesh. By express: Peck, 75c.

Porto Rico Yam This is a new Sweet Potato and a good one. The skin is golden color, with a slight pinkish tinge. Meat deep orange yellow, soft and sweet, tubers long and smooth; a very desirable shape. By express: Peck, 75c.

Larger quantities quoted on application.

SWEET POTATO PLANTS

Our sweet potato plants are from inspected beds and grown from selected seed which have been properly treated and will be free from all diseases to which the sweet potato is subjected. All shipments requiring them will have state inspection tags showing plants to be immune and free from diseased beds.

Our sweet potato plants or slips have been sold for many years in all parts of the country, with unvarying success, and we use unusual care in the packing of these plants in order that they may carry the longest distances. We have hundreds of letters telling us that our sweet potato plants are the best that our customers ever bought.

We can furnish the following varieties, plants ready April

15. They are put up in bunches of 100 each. We do not break the bunches.

Bunch Yellow Yam, Nancy Hall, Florida Yam, Early Triumph, Porto Rico Yam, Yellow Yam.

Price, any variety, by parcel post: 100, 50c; 500, \$1.75; 1,000 \$3.25; 5,000, \$16.00. Price, any variety, by express, at buyer's expense: 100, 35c; 500, \$1.50; 1,000, \$3.00; 5,000, \$13.75; 10,000, \$25.00.

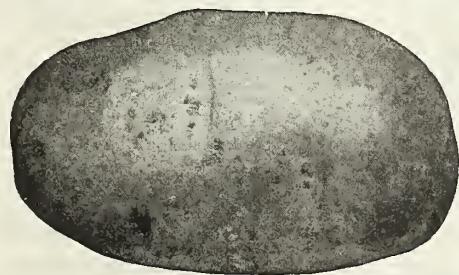
REMEMBER

A good garden should contain a variety of vegetables. The various kinds in our book are selected for this locality.

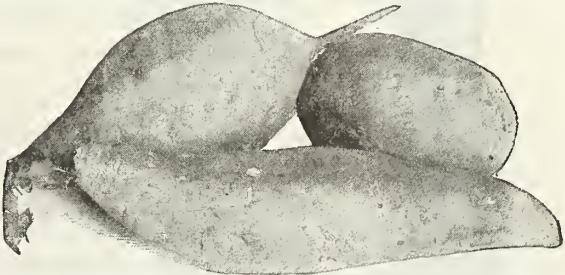
TO KILL INSECTS ON POTATOES

For Potato Beetle or the common potato bug, the best non-poisonous preparation is Bug Death, use it liberally.

For large crops, use either S. & W. Tuber Tonic, which is both an insecticide and a plant tonic, or Arsenate of Lead or Paris Green. Be careful when using Paris Green, it burns quickly. Arsenate of Lead is safer in every way.



Irish Cobbler Potato



Nancy Hall Sweet Potato

For Blight use Bordeaux Mixture. For prices on Insecticides recommended see Index.

RADISH

To be tender and crisp, radishes must be grown quickly, and this requires rich soil and moisture. Begin as early as possible in the spring and sow at intervals of about 10 days in a light, rich, deeply worked soil. Can also be forced in hotbeds. For fall and winter sow in August and September. One ounce sows fifty feet.

Crimson Globe A large globe-shaped variety. Handsome deep scarlet; thin skin, solid white flesh of best quality. Attains a large size without becoming pithy or losing its crispness. An excellent variety. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 75c; parcel post paid.

China Rose Winter color, flesh white and firm, superior quality. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 65c; parcel post paid.

Early Scarlet Globe A very distinct shape, brilliant red color, short leaved, crisp and white, of excellent flavor; a fine variety for forcing. This variety of radish is highly recommended to the market growers on account of its uniform size, shape and beautiful color. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; parcel post paid.

Early Scarlet Turnip A very early, small, round radish; entire radish is of a rich scarlet color. This splendid variety has always been a great favorite with market gardeners and for kitchen garden alike. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

Early Scarlet Turnip White Tip Market gardeners' favorite radish for outdoor planting. A very desirable one for the home garden. It is an early maturing variety, only a little later than the forcing strain. Turnip-shaped; handsome scarlet in color, with a distinct white tip. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c.

Early Long Scarlet Short Top Early, very short top, splendid shape and color, fine keeper; good for market. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c; parcel post paid.

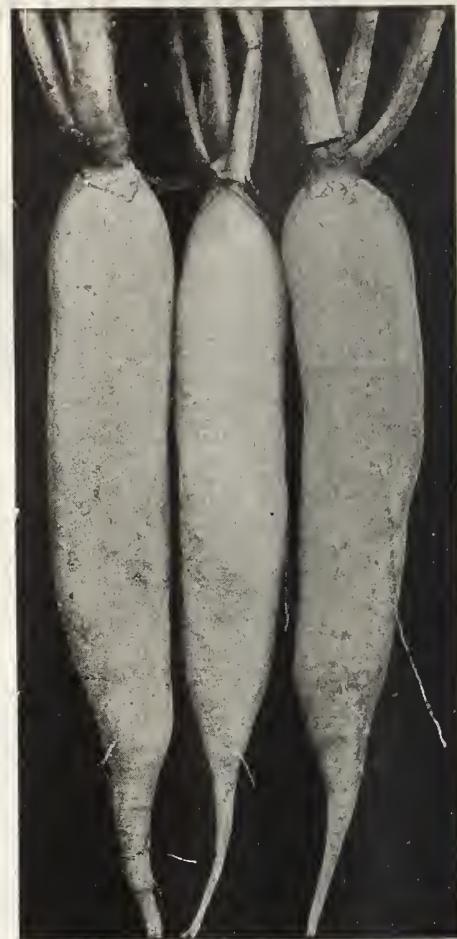
Early White Turnip Both skin and flesh of pure white. It does not become pithy. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 65c; post paid.

French Breakfast A very popular French variety of very rapid growth, and one of the best varieties for early forcing; its form is oval; color scarlet tipped with white, and small in size. It is also a beautiful variety for garnishing purposes. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 65c; parcel post paid.

Icicle Long, slender, pure white, the earliest and finest long, white radish. It is ready for use fully as early as the Long Scarlet Short Top, with less foliage; most desirable for forcing. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 65c; parcel post paid.

Long Black Spanish Winter Like the above, but the roots are longer and somewhat milder in flavor. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 75c; parcel post paid.

Round Black Spanish Winter This is a large, black-skinned radish; flesh white and firm; a good keeper. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 75c; parcel post paid.



Icicle Radish

Set out in the early spring or fall in deep-worked soil four feet apart each way. Mulch freely with manure or coarse litter. After stalks are well rooted and have grown freely, they may be used, and with care will last for years.

Linnaeus Best variety grown. Makes fleshy stalks of best quality. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.50. parcel post paid.

Rhubarb Roots Strong two-year-old roots.

Each, 25c; 5, \$1.00; 12, \$2.00;

parcel post paid. One year roots: Each, 15c; doz., \$1.25; parcel post paid. Not prepaid: Two-year roots, Each, 15c; doz., \$1.50. One-year roots, Each, 10c; doz., \$1.00.

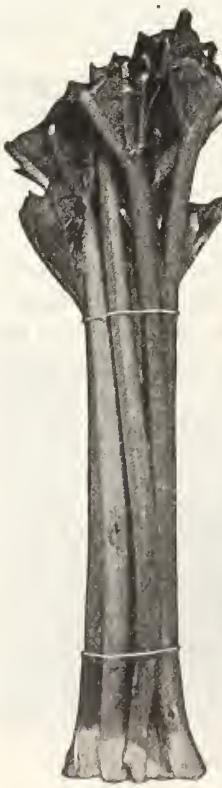
sowing the seeds should be stirred to the depth of 18 inches. Sow early in the spring in drills 15 inches apart; cover the seeds with fine soil 1 inch deep. One ounce for 60 feet of drill, 7 lbs. to one acre.

Mammoth Sandwich Island This splendid variety grows to fully double the size of the old sort; is of superior quality and delicate flavor. The oyster plant is one of the most nutritious and delicious vegetables, and should be more generally cultivated for winter use when the supply of really good vegetables is limited.

No market gardener should fail to grow it. It is a paying proposition. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.50.

SALSIFY or OYSTER PLANT

CULTURE—The oyster plant succeeds best in some light, well enriched soil which previous to



Rhubarb

RUSSELL-HECKLE SEED CO.'S 1922 BIG DOLLAR COLLECTION

36 Good Varieties of Garden Seeds

\$1.00 buys the complete collection, all parcel post paid. At regular prices it is worth exactly \$2.00, but we want you to try our excellent seeds. One regular sized packet of each of the following sent to you for only \$1.00.

No. 1 Beans—Burpee's Stringless Bush	No. 11 Corn—Golden Bantam	No. 25 Parsley—Double Curled
No. 2 Beans—Kentucky Wonder Pole	No. 12 Corn—Early Surprise	No. 26 Radish—Early Scarlet
No. 3 Beans—Henderson Bush Lima	No. 13 Cantaloupe—Rocky Ford	Turnip White Tip
No. 4 Beans—Lima Sieva, Pole	No. 14 Lettuce—Big Boston	No. 27 Radish—Early Long
No. 5 Beet—Eclipse Blood Turnip	No. 15 Lettuce—Curled Simpson	Scarlet
No. 6 Cabbage—Early Drumhead	No. 16 Mustard—Southern Curled	
No. 7 Cabbage—Early Jersey Wakefield	No. 17 Mustard—Chinese Mammoth	No. 28 Rape—Dwarf Essex
No. 8 Collard—Southern Georgia	No. 18 Onion—Red, Wethersfield	No. 29 Spinach—Curled Savoy
No. 9 Carrot—Danver's Half Long	No. 19 Okra—White Velvet	No. 30 Squash—White Bush
No. 10 Cucumber—Improved Long Green	No. 20 Peas—Early Alaska	No. 31 Tomato—Early Detroit
	No. 21 Peas—Telephone	No. 32 Tomato—Stone
	No. 22 Pepper—Chinese Giant	No. 33 Turnip—Purple Top S. L.
	No. 23 Pumpkin—Kentucky Yellow Field	No. 34 Turnip—Mammoth Purple Top Globe
	No. 24 Parsnip—Sugar Hollow Crown	No. 35 Watermelon—Tom Watson
		No. 36 Swiss Chard—Silver Beet

WE ALSO INCLUDE 1 COPY OF OUR AMATEUR GARDENER'S GUIDE WITH THIS COLLECTION
WE CAN MAKE NO CHANGE IN ASSORTMENT

SQUASH

CULTURE—After danger of frost is past, plant in a warm, well pulverized, rich soil, mixing well rotted manure with the soil in each hill. Plant 8 or 10 seeds to the hill; the bush varieties 4 to 6 feet apart, the running sorts 8 to 10 feet.

Early White Bush The well-known summer variety. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Mammoth White Bush Similar to above, except more uniform in shape, and about five days later. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Yellow Crookneck A bush variety, early and prolific; surface deep yellow, densely warted, quality and flavor good. Pkt., 5c; oz., 1/4 lb., 35c; lb., \$1.00; parcel post paid.

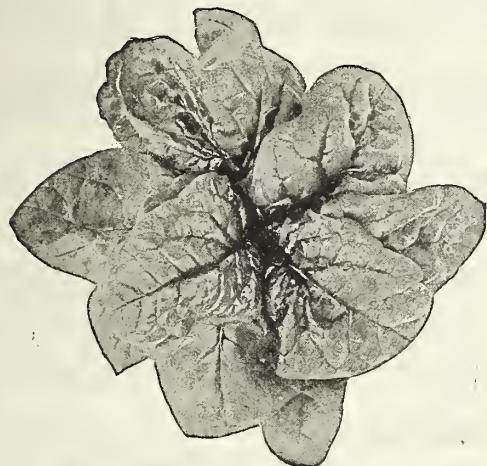
Giant Yellow Summer Crookneck The best summer variety. Fruit is large, bright yellow, and covered with warts. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00; parcel post paid.

Boston Marrow This variety is popular for autumn and winter use; its color is a bright orange; flesh yellow, rich and sweet. Prices: Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Hubbard The standard winter squash, no better variety grown. Flesh fine grained, dry and of excellent flavor. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25; parcel post paid.

Vegetable or Italian Marrow The very earliest of all the squashes. Although usually eaten when quite small it is good for table when full grown. Color dark green, changing to a lighter green at maturity. Price: Pkt., 5c; oz., 15c; 1/4 lb., 45c; lb., \$1.50.

SPINACH



CULTURE—Requiring but little culture it is one of the most easily managed of all vegetables. The main crop is sown in September, and if in exposed places it is sometimes covered with straw during the winter, which prevents it being cut by the frost. For summer use it may be sown at intervals of 2 or 3 weeks, from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre.

Broad Leaf Flanders A very vigorous grower; the leaves are very broad, thick tender and of a delicious flavor. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c, post paid.

Bloomsdale Curled Savoy A most valuable variety. In appearance the leaf is wrinkled in the same way as that of the Savoy Cabbage, hence the name. It produces nearly twice the bulk of crop as the ordinary sort, is fully as hardy, and in all other respects equal. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 45c; 5 lbs., \$2.00; parcel post paid.

Long Standing An improved strain of excellent merit, having all the good qualities of the ordinary sorts; but it is especially desirable because of the fact that it is much later in going to seed than the average variety. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c.

New Zealand Spinach This is not a spinach of the ordinary kind, but a plant of branching growth. One single plant will grow to dimensions of six feet across, producing an abundance of thick, fleshy stems and leaves, which make an excellent spinach. The flavor is particularly fine, and the fact that it does very well throughout the hottest summer makes it all the more desirable. Thrives in any soil. Cut leaves or shoots during entire summer. Plant in hills 2 feet apart each way, 3 or 4 seeds to a hill. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.00; parcel post paid.

SORREL

Valuable for its acid properties; mixed with salads, it imparts an agreeable and refreshing flavor. Sow in shallow drills 12 inches apart, and thin out the young plants to 6 inches.

Large Leaved French Pkt., 5c; oz., 25c; 1/4 lb., 75c; parcel post paid.

SWISS CHARD or SILVER BEET

Grown for its leaves and stems only. Cook the leaves as you do spinach and the stems like asparagus. Leaves grow from 20 inches to 2 feet in length. The plant is almost perpetual if kept trimmed; also good for poultry greens. Try it in your garden this year. *Lucullus* Swiss Chard is the best variety. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 90c; parcel post paid.

TOBACCO

The seeds are sown in the spring, in a plant bed, which is protected with thin cotton cloth. When these plants are almost 6 inches high, set out, 2 feet apart, in drills, with rows 3 feet apart. One ounce of seed will make enough plants to set out three acres.

Havana A variety which is grown largely for wrappers of cigars.

Connecticut Seed Leaf An early bright leaf variety for smoking and chewing.

Improved White Burley A fine variety for both chewing and smoking.

Price of any of the above varieties: Pkt., 10c; oz., 50c; parcel post paid.

AMATEUR'S GARDEN GUIDE

Special planting instructions for sowing all kinds of vegetables and flowers seeds, setting fruit trees, roses, strawberry plants, sowing grasses and clover seeds supplied free with orders. This is a 16-page booklet, full of useful information. Don't fail to get a copy.

REMEMBER

A good garden should contain a variety of vegetables.

The various kinds in our books are selected for this locality.



Swiss Chard or Silver Beet

A 1922 NOVELTY GULF STATE MARKET TOMATO

D. M. FERRY'S & CO. NEW CREATION

Gulf State Market is earlier than any other good purple tomato. The vines are exceptionally robust. This makes the crop less susceptible to blight than other varieties, and increases the possibilities of a perfect stand in the field if weather or other conditions are unfavorable.

The nodes are set low and close together, permitting the tops to be trimmed advantageously.

The fruits are almost true globe shaped and are entirely free from cracks or blemishes about the blossom end. Fruits on the same cluster ripen uniformly, making it an economical variety to pick.

The fruits color a rich purplish pink clear to the stem after packing.

Price: Packet, 25c; 1/4 oz., 60c; oz., \$2.00; parcel post paid.

TOMATOES

CULTURE—The seed should be sown in March in a hot bed or green house, or may be sown in a box and kept inside the window of a room where the night temperature is not less than 65 degrees. The plants should be thinned out in the bed so as to give them plenty of room or they will be weak and poor. About the middle of May the plants may be set in the open ground from 4 to 5 feet apart each way. One ounce produces about 1,500 plants.

To prevent rot and blight on tomato plants spray with Bordeaux mixture when first fruits have set.

Beefsteak This valuable new tomato was introduced by Peter Henderson. It is of remarkable size, frequently weighing a pound or more. Color brightest crimson scarlet; very solid, with few seeds, and ripens evenly to the stem. Very productive and early, considering its size. Pkt., 5c; oz., 40c; 1/4 lb., \$1.00; lb., \$3.50; parcel post paid.

Burpee's "Dwarf Giant" The tomato that won't blight. It is much the largest fruited of all dwarf tomatoes. The color is a rich purple crimson and the depth of color is maintained throughout the season. Pkt., 5c; oz., 50c; 1/4 lb., \$1.00; lb., \$3.50; parcel post paid.

Beauty Vines large, vigorous and heavy bearers; fruit large, uniform in size, very smooth, and excellent flavor; color purplish pink. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$2.00; parcel post paid.

Bonny Best An excellent extra-early variety, maturing between Earliana and Chalk's Early Jewel. Medium sized, scarlet, smooth, round shape; ripens evenly. Pkt., 5c; oz., 50c; 1/4 lb., \$1.00; lb., \$3.50.

Chalk's Early Jewel Ten days later than Earliana. Large, solid fruits; roundish; bright red; excellent quality; splendid for home use or market; retains its deep red color when canned. Pkt., 5c; oz., 30c; 1/4 lb., 70c; lb., \$2.25; parcel post paid.

Earliana One of the earliest varieties; bright red and smooth; very productive. Pkt., 5c; oz., 25c; 1/4 lb., 70c; lb., \$2.00; parcel post paid.

Early Acme Medium in size, round, smooth, solid and prolific. Purplish pink in color; splendid for home use. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$2.00; parcel post paid.

Early Detroit The largest and best of the early purplish tomatoes. Largely grown throughout the South. Fruits very smooth, nearly globe-shaped, firm and of



Bonny Best Tomato

excellent quality. Pkt., 5c; oz., 30c; 1/4 lb., 70c; lb., \$2.25; parcel post paid.

Livingston's Globe A desirable new variety; large, roundish fruits, excellent for slicing. Flesh firm, with few seeds; ripens evenly; has a delicate, agreeable flavor; vines very productive. Try our stock of Livingston's Globe. We have the genuine strain from the originators. Pkt., 5c; oz., 50c; 1/4 lb., \$1.25; lb., \$4.00; parcel post paid.

Matchless Rich, cardinal-red; large, solid, with tough skin; not liable to rot or crack; excellent quality; vigorous grower and very prolific; one of the best main-crop sorts; solid enough to be a good shipper. Pkt., 5c; oz., 25c; 1/4 lb., 70c; lb., \$2.00; parcel post paid.

Ponderosa This is rapidly becoming the most popular variety for home gardening. The fruits grow to enormous size and are extra fine for slicing. If you want some real large tomatoes plant Ponderosa. Pkt., 5c; oz., 50c; 1/4 lb., \$1.50; lb., \$4.50; parcel post paid.

Stone One of the largest, most solid and meaty of all tomatoes, and especially valuable for late plantings. It has heavy foliage, thus protecting the fruits from the burning sun of late summer and early fall. It is very solid and a good shipper; smooth and uniform in growth. Color, a desirable red. Fine for canning, for its solidity. Pkt., 5c; oz., 25c; 1/4 lb., 50c; lb., \$1.50; parcel post paid.

Red Rock Matures in 100 days. A second early. Fruit large, bright crimson; smooth, solid, of excellent flavor. Bears shipping to long distances well, and is much planted for this purpose. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$2.00; parcel post paid.

Red Trophy An old favorite; large, red, solid fruit. Pkt., 5c; oz., 25c; 1/4 lb., 60c; lb., \$2.00; parcel post paid.

Strawberry, or Husk Tomato Plants of low-spreading growth and immensely productive. The small, yellow fruits are each enclosed in a husk. Of very sweet flavor, highly esteemed for preserving or making pies. Pkt., 5c; oz., 40c; 1/4 lb., \$1.25; parcel post paid.

Red Pear Shaped
Pkt., 5c; oz., 40c; parcel post paid

Yellow Pear Shaped
Pkt., 5c; oz., 40c; parcel post paid



Early Detroit Tomatoes

TOMATOES—Continued

Yellow Ponderosa One of the most interesting novelties ever introduced. It equals our Improved Ponderosa in size, but bears rich, golden-yellow fruits in abundance. This is a grand yellow tomato that has color alone to distinguish it. Pkt., 5c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; lb., \$4.50; parcel post paid.

Red Peach Fruits one and a half inches in diameter. The skin is covered with a slight bloom or pubescence, as in a peach, and of beautiful coloring. Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.25; parcel post paid.

TURNIP

CULTURE—Spring sowing should be put in early so that they will attain a good size before hot weather. For the regular crop, sow the early sorts in July or August, the later sorts during August, and the salad varieties during August and September. Sow either broadcast or in drills 2 feet apart, thinning out to 6 inches and roll the ground after sowing. Rutabagas should be sown in July and early in August, and earthed up as they grow. New ground makes the best turnips, or, if sown in your garden, first mix a good supply of phosphate with the ground, then sow your seed. Cover the seed about $\frac{1}{2}$ inch. Sow $1\frac{1}{2}$ pounds to the acre in drills, 2 pounds, broadcast. One ounce to 100 feet of drill.

Extra Early Purple Top Milan A white variety, purple top strapleaf. This, with the White Milan, is the earliest of all turnips. Remains in good condition a long time. Price: Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.00; parcel post paid.

Extra Early White Milan The earliest turnip. Tops very small, distinctly strap-leaved and growing very erect. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 50c; lb., \$1.50; parcel post paid.

Extra Early White Egg A quick growing, egg-shaped, pure white variety. Very sweet, firm and mild. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c; parcel post paid.

Large White Globe Makes large, round, handsome white roots, excellent for table and stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

Amber Globe Of large size, globe shaped, solid yellow flesh; green top. Fine for table and stock. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

Mammoth Purple Top Globe Makes large, globe shaped roots, pure white, with purple top. A heavy yielder and unsurpassed in quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

Red or Purple Top Strapleaf Flat, white, with purple top. Fine grained and tender. Used for early market and table. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

Seven Top The old standard popular salad variety, grown extensively for this purpose. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 45c; parcel post paid.

White Flat Dutch Strapleaf An extra early pure white, flat-growing variety. Recommended for early market. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

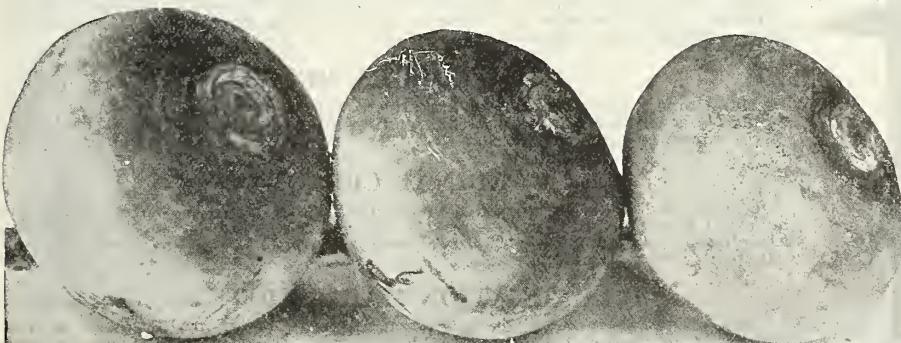
Yellow Aberdeen Purple Top A splendid keeping variety with firm, solid, yellow meat. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.

Mixed Turnips Matures in from 45 to 90 days. Equal mixture of all the best varieties, including White Milan. Pkt., 5c; $\frac{1}{4}$ lb., 15c; lb., 45c; parcel post paid.

RUTABAGA

Sow in drills or broadcast in June, July and August.

Improved Purple Top Rutabaga An improved strain of the finest yellow fleshed rutabaga grown. Hardy, sweet and a good keeper. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c; parcel post paid.



Mammoth Purple Top Globe Turnip



Ponderosa



Blight and Bug Mixture A dry dusting or spray formula for tomato blight and bugs. Tomato Blight has done more harm in the South in the past few years to discourage the growing of tomatoes than any other thing we know of.

Vaycide Blight Remedy, if directions are followed, keeps tomatoes from having the blight. It must, however, be used in the seed beds or on very young plants. Don't wait until the plants have the disease and expect to cure it.

If Vaycide Blight Remedy is applied in time it will prevent tomatoes from blight or leaf curl, regardless of whether the crop is being grown on land previously infected with blight or not. Vaycide Blight and Bug Remedy is an excellent insecticide for destroying certain leaf eating and chewing insects.

Price: $\frac{1}{4}$ lb., package, 25c; $\frac{1}{2}$ lb., 45c; lb., 75c; 3 lbs., \$2.00. By express only. Vaycide Blight Remedy cannot be mailed.

Bowker's Pyrox Combined insecticide and fungicide for blight and brown rot on tomatoes, also on apple and other fruit trees. If used on the young tomato plants it will tend to help them throw off diseases such as leaf curl and blight, and if used where the crop is just beginning to fruit Pyrox will prevent brown rot on tomatoes.

One pound of Pyrox will make six gallons of spray material, and if your plants are infected with lice add to the six gallons of spray mixture one teaspoonful of nicotine.

Save your crop with this combination. Don't delay. Send us your order now and have Pyrox on hand ready to use at the proper time. Price: Lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00; f. o. b. Memphis. Not mailable.

A SQUARE DEAL

A square deal is positively given every customer who purchases his seed from us, and on account of changing prices that are prevailing we will undertake to protect our customers by giving them every advantage possible.

RUSSELL-HECKLE'S FLOWER SEED

BRIEF HINTS ON SOWING—Nine-tenths of the failures in raising flowers are caused by improper treatment of the seeds and young plants. The finer seeds should be started in shallow, well-drained boxes in the house and the young seedlings should be transplanted a few times until they are large enough to be set out into the open ground. Do not plant any seed as long as the ground is wet. A mellow loam, enriched with compost of rotted manure and leaf mold, is best adapted to most flowers. Rake the surface as smooth and fine as possible, elevating the surface of the beds and borders slightly in the middle so that surplus water may run off. Cover the different seeds in proportion to their size, giving very thin covering to small seeds and planting large seeds deeper.

All prices on flower seeds are parcel post paid.

ALYSSUM

SWEET—Six to eight inches high; a fragrant, hardy annual, bearing spikes of small white flowers in great profusion throughout the summer and autumn. Useful for border or early bedding flowers. Sow the seed early in spring. Pkt., 5c; oz., 30c.

LITTLE GEM—Three to four inches high; fine for borders. Pkt., 10c; oz., 50c.

AGERATUM

A hardy annual of easy culture, especially valuable for bedding, as it is literally covered with blossoms all summer. Sow the seed early in the spring. Pkt., 10c; oz., 40c.

ANTIRRHINUM or SNAP DRAGON

Flowers double the size of older sorts, more closely set on the stems and colors more clear and brilliant, growing about 18 inches high. Tall mixed of many colors. Pkt., 5c; oz., \$1.00. Half Dwarf Mixed: Pkt., 10c; oz., \$1.00.

ASTERS

CHINA—Very effective in beds or borders, and offers a pleasing change to the innumerable double sorts. Mixed colors. Pkt., 5c; oz., 75c.

GIANT COMET—A good bedding variety with large blossoms, the petals of which are long, narrow and curled backward. Splendid for cut flowers. Mixed colors. Pkt., 10c; oz., \$1.50.

SEMPLE'S BRANCHING—This superb strain is of American origin, and is especially adapted to our climatic conditions. The plants form strong, branching bushes, 2 to 2½ feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers, which, under ordinary cultivation, average 4 inches across. Pkt., 10c; oz., \$1.50.

Crimson, Pink, White, Lavender, Purple; Mixed, all shades.

VICTORIA MIXED—Flowers very large and perfectly double, of globular shape and imbricated; plants of fine pyramidal form, 1½ feet high. Pkt., 10c; oz., \$1.50.

ALL COLORS MIXED—A combination of all varieties, giving both range of colors and shapes. Pkt., 5c; oz., \$1.00.

BALSAM

DOUBLE MIXED—Balsams like hot sun, rich soil and plenty of water. Plant 12 to 18 inches apart. Transplanting two or three times has a tendency to dwarf the plants into better shape and to make the flowers more double. Pkt., 5c; oz., 50c.



Centaurea Cyanus or Ragged Sailor
(See Page 23).



Calendula (Pot Marigold)

BALSAM APPLE—Round, apple-shaped fruit with very fine glossy, green foliage. This is a pretty climber. Pkt., 5c; oz., 30c.

BALLOON VINE

A rapid growing climber; thrives in light soil. One of the prettiest climbers. Pkt., 5c; oz., 35c.

BACHELOR'S BUTTON

Mixed colors. Of easy culture; sow the seed where it is to remain and thin plants to 3 or 4 inches apart. Annual. Pkt., 5c; oz., 45c.

CALLIOPSIS

Showy, beautiful free flowering annuals, blooming all summer; excellent for cutting and massing. Mixed colors. Pkt., 5c; oz., 60c.

CANARY BIRD VINE

A beautiful climber with curiously shaped little canary-colored blossoms. Will blossom freely from July until killed by frost. Tender annual. Sow in the house and transplant or in open ground. Pkt., 5c; oz., 50c.

CALENDULA (Pot Marigold)

Very hardy annual, one foot high. Has showy flowers blooming until frost and producing a fine effect in borders. It is of easy culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. Mixed varieties. Pkt., 5c; oz., 30c.

CANDYTUFT

One of the earliest blooming plants in spring and easily raised from seed. The flowers are produced in clusters in a variety of colors. Planted in masses they form a flower garden by themselves. Fine as cut flowers. Start in boxes or under glass for early bloom. Very showy for borders or massing in beds. Mixed. Pkt., 5c; oz., 20c.

CANNA

Stately, ornamental, producing clusters of large flowers of the most intense, varied and brilliant colors. Very desirable for greenhouse or bedding outdoors. Plant the seed in February, first soaking them for a day in warm water. Mixed colors. Pkt., 5c; oz., 40c.

CANTERBURY BELLS

Handsome, hardy biennial of stately growth, rich color and profuse bloom. Should be given some protection in severe winter weather; height, 2 to 4 feet. Single mixed colors. Pkt., 5c; oz., 25c.

CARDINAL CLIMBER

A new and brilliant colored annual climber. Flowers glowing scarlet, 1½ inches in diameter, the tube being 1¼ inches in length. Vines branch freely, attaining a height of from 20 to 30 feet. Start seed indoors in March and transplant. Pkt., 10c; oz., 80c.

CARNATION MARGUERITE

The plants of this wonderful fine strain may be made to flower in four months. The flowers are large, double and very fragrant and appear in very attractive shades of color. One of the best "pinks" in cultivation. Mixed colors. Pkt., 10c; oz., \$1.00.

CENTAUREA CYANUS

Known as Ragged Sailor or Cornflower. It is not a pretentious plant but will always charm by its simple beauty. Re-seeds itself and may be used for naturalizing purposes.

DOUBLE MIXED—

Pkt., 5c; oz., 25c.

DOUBLE BLUE—

Pkt., 10c; oz., 40c.

COBEA SCAN- DENS (Cup and Saucers Vine)

A climber of rapid growth; valuable for covering trellises, arbors, trunks of trees, etc; large, bell-shaped purple flowers. Pkt., 5c; oz., 35c.



Cosmos

COCKSCOMB CELOSIA

The finest type of the crimson feathered cockscomb. Huge plumes of crimson flowers. Pkt., 10c; oz., 60c.

COLEUS

Probably the best known and most popular of ornamental foliage plants. The leaves are of many shades of color and have a rich, velvety appearance of extraordinary beauty. Tender perennial. Mixed colors. Pkt., 15c.

COLUMBINE (Aquilegia)

Very desirable, easily grown, old fashioned perennials for borders, forming large, permanent clumps. Sow the seed, which is of rather slow germination, in open ground early in spring in any rich, well drained garden soil. Pkt., 5c; oz., 50c.

COREOPSIS

Fine for cutting; graceful flowers. Pkt., 5c; oz., 30c.

CORNFLOWER

The well known everlasting flower. Mixed colors. Pkt., 5c; oz., 30c.

COSMOS

Among the garden annuals that have come into prominence in recent years the Cosmos leads all. It is show in the garden and magnificent when cut. Seed sown in the open ground in the beginning of April will produce blooming plants in July, and they will continue to flower late in the fall.



Hollyhock (Double, Mixed Colors)

GIANT FLOWERING—White. Pkt., 10c; oz., 40c.

GIANT FLOWERING—Pink. Pkt., 10c; oz., 40c.

GIANT FLOWERING—Crimson. Pkt., 10c; oz., 40c.

GIANT FLOWERING—Mixed Colors. Pkt., 10c; oz., 40c.

EARLY FLOWERING—Mixed Colors. Pkt., 5c; oz., 35c.

CYPRESS VINE

Rapid climber, having dark green, feathery foliage, bearing an abundance of star-like flowers; fine for trellises and arbors. Mixed. Pkt., 5c; oz., 35c.

DAHLIA (Double)

This strain is a decided advance on the ordinary singles. The plants are of strong, robust habits, and produce in great abundance flowers of immense size, of the most bewildering variety of coloring. Mixed colors. Pkt., 10c; oz., 80c.

DAISY

Finest double; very desirable for edgings or low borders. Mixed, pink and white. Pkt., 10c; oz., \$2.00.

SHASTA'S BURBANK—Pure white; gigantic; will bloom in six months from seeding. Pkt., 10c; oz., \$2.00.

ESCHSCHOLTZIA

CALIFORNIA POPPY—State flower of California. A genus of the Poppy family, fully as valuable as the common poppy for garden ornamentation, as it blooms almost continuously. Hardy annuals; height 1 foot. Mixed. Pkt., 5c; oz., 30c.

GOLDEN WEST—Flowers 3 to 5 inches across. Bright yellow with orange blotch at base of petals. Pkt., 5c; oz., 25c.

FOR-GET-ME-NOT

Six inches. Dainty, elegant little plants with graceful flowers, mostly in shades of blue. Like Pansies and Daisies, they like cool, moist soils, and they will bloom most freely in fall and early spring.

MIXED—Many varieties. Pkt., 5c; oz., 60c.

FOUR o'CLOCK (Marvel Peru)

Mixed. These flowers are funnel-shaped; red, white, yellow or striped with these colors and open about 4 o'clock in the afternoon, remaining open all night. The abundance of new flowers daily afford a constant succession of fine blooms. Sow in open ground. Hardy annual; two feet high. Pkt., 5c; oz., 10c.

FOXGLOVE (Digitalis)

Grows to the height of 3 or 4 feet, with dense spikes of brilliantly colored flowers which are terminal and half as long as height of plant. Colors: white, lavender and rose. A valuable flower in every perennial garden; does not usually blossom until the second year. Mixed colors. Pkt., 5c; oz., 35c.

GLOBE AMARANTH (Bachelor's Button)

A single plant will produce several hundred flowers. 1 ft. Mixed colors. Pkt., 5c; oz., 40c.

GOURD

A tribe of climbers with curiously shaped and colored fruit. Being of rapid growth they are fine to cover old fences, trellises, stumps, etc. Tender annual; 10 to 20 feet high. Pkt., 5c; oz., 20c.

HELIOTROPE

Will bloom as easily from seed as any of the common annuals. Pkt., 10c; oz., 75c.

HOLLYHOCK (Double, Mixed Colors)

Our seeds have been saved from the finest and largest double flowers only, and will produce flowers extremely double and in the best, brightest and most charming colors. Sow in April, May or June for next year's blooming. Pkt., 10c; oz., 80c.

HUMULUS (Japanese Hops)

Quick growing vine for veranda or trellis. Annual; not subject to insect pests; very handsome; stands drought well. Pkt., 5c; oz., 35c.

HYACINTH, or JACK BEAN

A rapid growing annual climber; mixed; all colors. Pkt., 5c; oz., 20c.

KOCHIA, or SUMMER CYPRESS

Grows quickly from seed sown in the open ground. The plants are of rounded or globe-like form. Early in the fall the ends of the shoots are thickly set with small bright scarlet flowers, the bushy plants resembling balls of fire; makes a good summer hedge. Pkt., 5c; oz., 40c.

ICE PLANT

A handsome and curious plant for hanging baskets, rock-work and vases. The leaves and stems appear as though covered with ice crystals. The whole plant is peculiarly brilliant in sunshine. The flower is white and pink. Pkt., 5c; oz., 30c.

KUDZU VINE

To this must be awarded first place as the fastest growing, hardy, climbing plant. It will grow 8 to 10 feet the first year from seed, and after it becomes established there seems to be no limit to its growth. Its foliage is large and covers well; bears small racemes of rosy-purple, pea-shaped blossoms towards the close of August. A splendid subject for covering permanently verandas, dead trees, etc. Pkt., 10c; oz., 70c.

LARKSPUR

The Larkspur is one of the handsomest and most useful of plants and for large gardens is invaluable. **MIXED**—Pkt., 5c; oz., 40c. **PERENNIAL**—The hardy kind. Mixed varieties. Pkt., 10c; oz., \$1.25.

LOBELIA

A trailing variety with deep ultramarine blue flowers. Very fine for hanging baskets and boxes. Pkt., 5c; oz., 40c.

MARIGOLD

TALL MIXED—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. No flower garden seems complete without this fine old-fashioned flower. Hardy annuals, in bloom till frost comes. Pkt., 5c; oz., 35c.

DWARF FRENCH—Fine for edging and bedding. Pkt., 5c; oz., 40c.

MIGNONETTE (Sweet)

A well known, hardy annual, producing dense spikes of exceedingly fragrant flowers. If sown at intervals in spring and summer, it will bloom until killed by frost. Thrives best in a cool temperature. Pkt., 5c; oz., 25c.

MOON FLOWER

So called from its rare peculiarity of blooming best at night, although it also expands its flowers on dull days. A beautiful climber, producing large, sweet-scented flowers 4 to 5 inches across. Tender annuals, 15 to 20 feet. Soak seed and plant in warm, sunny place. Pkt., 10c; oz., 50c.

BONA NOX—Blue Moon flower; large and fragrant. Pkt., 10c; oz., 50c.

MORNING GLORY

A hardy climbing annual growing about 10 feet high. Flowers are well known and exist in a great variety of colors, tints and markings. Fully expanded only in the morning. Of easy culture, quick growth and valuable in every garden. Mixed colors. Pkt., 5c; oz., 10c.

JAPANESE MIXED—New improved Japanese Convolvulus of grand variety; flowers measuring from 4 to 5 inches across; great variety of colors; very handsome foliage. Pkt., 5c; oz., 15c.

NASTURTIUMS

Annual. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels Nasturtiums. All they need is a moderately good soil in a well drained, sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms.

R.-H. Co.'s Fancy

Dwarf Extra select, large flowered, comprising all the best shades and colors. Pkt., 10c; oz., 15c; 1/4 lb., 50c.

Dwarf Choice

Mixture A magnificient strain containing countless shades, colors, stripes, blotches and veining. Pkt., 5c; oz., 10c; 1/4 lb., 35c;

R.-H. Co.'s Fancy

Tall Giant flowers, the plants producing a profusion of bloom. Pkt., 10c; oz., 15c; 1/4 lb., 50c.

Tall Choice Mixed

For richness and variety of color these have no equal among Nasturtiums. Pkt., 5c; oz., 10c; 1/4 lb., 30c.



Russell-Heckle's Fancy Dwarf Nasturtiums

PANSIES

These popular flowers thrive best on a cool, moist, but well-drained soil, enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for summer blooming.

Choice A splendid mixture of many very fine varieties. Pkt., 5c; oz., 75c.

Mammoth Flowering, Mixed A special mixture of all the Giant Pansies; very fine colorings; contains an almost endless variety of shades. Pkt., 10c; oz., \$1.25.

Overton Park Mixture Is saved from exhibition flowers, including almost every shade of color, exquisitely spotted and blotched, veined, mottled and margined, all fancy varieties. This strain is so beautiful that no description or praise can do it justice, being unsurpassed for rich and varied colors and immense size. Pkt., 15c; oz., \$2.00.

PHLOX

The annual phlox occupies first place as a garden annual, being one of the most brilliant and at the same time one of the easiest and most satisfactory plants which can readily be grown from seed. It will grow and thrive in any kind of soil if given a sunny position, but prefers a light, rich loam. Seed may be sown in the open ground any time after danger of frost is past.

Drummondii (Choice Mixed) Contains fine, select varieties of this showy annual. Pkt., 5c; oz., 50c.

Drummondii (Large Flowering Mixed) Pkt., 10c; oz., 75c.

Fireball Flowers large, blood red. Pkt., 10c; oz., \$1.75.

Snowball Large, clear white flower. Pkt., 10c; oz., \$1.75.

Hardy Perennial Large and showy; mixed colors; 3 feet. Pkt., 15c; oz., \$2.00.



Phlox Drummondii (Large Flowering Mixed)

PETUNIAS

FINE MIXED—Good mixture of all free blooming colors. Pkt., 5c; oz., 60c.

MAMMOTH FLOWERING—Large flowering Grandiflora, all colors mixed; single fringed and ruffled. Pkt., 10c; oz., \$1.50.

HOWARD'S STAR—Compact-growing variety; flowers striped and blotched. Pkt., 10c; oz., \$1.25.

INITIAL STRIPED AND BLOTTCHED—Includes striped or fine mixed flowers in a wide range of colors. A fine bedder. Pkt., 5c; oz., \$1.25.

PINKS

DIANTHUS—Hardy and half-hardy biennials and perennials, but nearly all blooming the first year from seed; of easy culture. Seeds may be sown in the open ground.

CHINA DOUBLE MIXED—Pkt., 5c; oz., 50c.

HEDEWIGII DOUBLE MIXED—Flowers very large and double and of various shades of brilliant colors. Pkt., 5c; oz., 50c.

DOUBLE DIADEM—A most brilliant mixing of colors of bewildering beauty. Pkt., 5c; oz., 50c.

POPPIES

DOUBLE PEONY FLOWERED—Annual variety; mixed; large, full, double-fringed flowers. Pkt., 5c; oz., 15c.

SHIRLEY—These handsome flowers are single, beautiful in color, from pure white to deep crimson. Pkt., 5c; oz., 15c.

DOUBLE CARNATION FLOWERED—Extra large and double. Pkt., 5c; oz., 15c.

DOUBLE, FINE MIXED—A combination of all varieties, single and double flowers. Pkt., 5c; oz., 15c.

PERENNIAL—Hardy perennial variety, of easy culture; in bright, glowing colors. Pkt., 10c; oz., \$1.00.

AMERICAN LEGION—A beautiful new Shirley poppy. Pkt., 10c; oz., 50c.

PORTULACA

SINGLE—Fine mixed. Pkt., 5c; oz., 50c.

DOUBLE—Fine mixed. Low-growing or creeping tender annual, 6 to 8 inches high, and bearing glossy, cup-shaped blossoms; very brilliant, gorgeous colors. Pkt., 10c; oz., \$1.75.

RICINUS

CASTOR BEAN—Stately, strong growing annual plants, with very ornamental foliage, well adapted as center plants of groups of cannas, dahlias, etc. Moles are troublesome in many gardens, but they may be kept away by planting Castor Beans in the borders. Pkt., 5c; oz., 15c.

RUDBECKIA

GOLDEN GLOW—Fine free-flowering annual variety. The disc is brown, the florets golden yellow, with large velvety brown spots at the base. Very effective and useful for cutting. Pkt., 10c; oz., 85c.

SALVIA

FLOWERING SAGE—A tender perennial, blooming the first season from seed. The blossoms are borne on long stems in racemes or spikes. The plant blooms profusely. Pkt., 10c; oz., \$1.75.

BONFIRE—Flowers of a most brilliant, dazzling scarlet; one of the finest. Pkt., 15c; oz., \$2.25.

SCARLET RUNNER BEANS

A great favorite, not only as an ornamental climber, but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c; oz., 10c.

SENSITIVE PLANT

One of the most remarkable and interesting plants in cultivation: the leaves, when touched, instantly fold up. Pkt., 5c; oz., 35c.

STOCKS

TEN WEEKS—Mixed. These popular plants are generally grown both for the brilliance and profusion of their blossoms and their fragrance. They are quite easily cultivated. Pkt., 5c; oz., 70c.

SUNFLOWER

Tall growing plants, with large and showy yellow flowers; hardy annuals. Any variety: Pkt., 5c; oz., 20c.

DOUBLE DWARF—4 feet.

GLOBE OF GOLD—4½ feet.

DOUBLE TALL—7 feet.

SINGLE—5 feet.

SWEET WILLIAM

SINGLE—Varieties; mixed; more attractive than the double. Pkt., 5c; oz., 30c.

DOUBLE—Mixed; a mammoth flowered type of great beauty. Pkt., 10c; oz., 70c.

THUNBERGIA

BLACK-EYED SUSAN—A beautiful, tender climber, 3 to 5 feet high, with pale yellow or orange-yellow flowers, having a distinct black center. Tender annual. Pkt., 10c; oz., 35c.

VERBENAS

CHOICE—Mixed; embraces all colors. Pkt., 5c; oz., 50c.

FANCY—Large, mixed; embraces a wide range of the most beautiful colors, the clusters being of large size. Pkt., 10c; oz., 70c.

FINE PINK—Pkt., 10c; oz., 70c.

DEEP PURPLE—Pkt., 10c; oz., 70c.

BRIGHT CRIMSON—Pkt., 10c; oz., 70c.

PURE WHITE—Pkt., 10c; oz., 70c.

STRIPED—A mixture of striped sorts. Pkt., 10c; oz., 70c.

VINCA

PERIWINKLE—Ornamental free-blooming, handsome bushy plants, with glossy foliage and round single flowers, 1½ inches across. Blooms the first season from seed. In a sunny situation they bloom all summer; in the fall, if taken up and potted, they will bloom through the winter. Desirable for massing or borders. Very easily grown. Pure white. Pkt., 10c. Mixed colors: Pkt., 5c; oz., 60c.

WALLFLOWER—Very conspicuous in beds or borders, and are very useful in making bouquets. They are deliciously fragrant; single mixed. Pkt., 5c; oz., 35c.

WILD CUCUMBER VINE—Ornamental climbing cucumber, with curious fruit; remarkable for its luxuriance and rapidity of growth. Pkt., 5c; oz., 25c.

WILD FLOWER GARDEN MIXTURE—A delightful surprise to thousands of flower lovers; not a tame garden of wild flowers, but a wild garden of tame flowers. A mixture of the choicest seeds, mostly annuals, to be sown haphazard, in a promiscuous way. Pkt., 5c; oz., 20c.

Russell-Heckle's Showy Zinnias

These attractive and decorative hardy annuals are most desirable plants for mixed borders or bedding purposes, and are remarkable for the profusion and duration of their flowers, which are extremely useful for bouquets. Will thrive almost anywhere. Flowering season June to November.



R.-H. CO'S GIANT FLOWERING SHOW—Huge flowers, measuring 5 to 6 inches across, semi-globular and very double. Grand and long lasting effects can be produced in beds and borders with this new race. Cannot be excelled in beauty and range of colors. 2½ feet high. Pkt., 10c; oz., \$1.00.

FANCY LARGE FLOWERING MIXED—A magnificent form of this most useful annual with a wonderful range of brilliant colors. Pkt., 10c; oz., 60c.

CHOICE DOUBLE MIXED—A fine mixture of colors. The petals are curled and the flowers large and attractive. Pkt., 5c; oz., 50c.

SEPARATE COLORS—Nothing finer for flower beds where one solid color or a combination of several colors is desired. Giant White, Giant Pink, Giant Crimson, Giant Yellow, Giant Purple, Giant Orange. Each, pkt., 10c; oz., 75c.

DOUBLE CURLLED AND CRESTED—A new strain, fantastically shaped flowers with twisted petals, brilliant colors. 2 feet. Pkt., 10c.

DOUBLE LILLIPUT—Compact bushes, 12 inches high; small, double flowers. Splendid for borders, blooming all summer and until late fall. Mixed colors. Pkt., 10c.

RED RIDING HOOD—12 inches high. Small, intense scarlet flowers. Effective border plant. Pkt., 10c.

SWEET PEAS

Sow in January, February, March or April. Cover seed 2 to 4 inches, according to depth of your trench. The soil for Sweet Peas should be rich and deep, with plenty of well rotted manure in it. Heavy soils must be well worked and fertilized some time before sowing the seed. On high and dry soils they may be sown in drills from 4 to 6 inches deep, covered with an inch or two of soil pressed firmly, and the furrow filled in as the plants grow. When the seed is well above the ground, the little plants should be thinned out so as to be at least from 2 to 4 inches apart. It is a mistake to sow too thick, but it is well to allow for seeds which may rot in the ground or be destroyed by cutworms. In low, damp soils, the seed should only be planted 1½ or 2 inches deep, or they will rot during the process of germinating.

R.-H. Co.'s Spencer Mixed They represent the highest achievement in Sweet Peas to date. This mixture has been made up of named sorts. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$2.00; parcel post paid.

Burpee's Finest Spencers From the house of Burpee. Their own special mixture of Spencer Sweet Peas. Pkt., 10c; oz., 20c; ¼ lb., 75c; lb., \$2.50; parcel post paid.

Eckford Royal Mixed Composed of the very best varieties of the Grandiflora type of Sweet Peas. These are somewhat harder than the Spencers. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 90c; parcel post paid.

Cupid, Dwarf or Bedding Mixed These form a line of emerald-green foliage a little over a foot wide and six inches high and from June until late summer are literally a sheet of bloom. Pkt., 5c; oz., 20c; ¼ lb., 50c; parcel post paid.

Perennial or Hardy Sweet Peas hardy and will live for years, but the flowers have not the fragrance of the annual Sweet Peas. These come in shades of red and white only. An excellent plant for covering fences and trellises. Splendid for cut flowers. Finest mixed. Pkt., 10c; ½ oz., 30c; oz., 50c; parcel post paid.

SPENCER VARIETIES

This group includes the largest and most beautifully formed sweet peas. The Spencers have very large, waved flowers, which are produced abundantly on long, strong stems, making the blossoms most desirable for cutting.

APPLE BLOSSOM—Bright rose standard, with wings of very light primrose flushed or tinted rose-carmine. Very large Spencer form. A free blooming sort and a very reliable bi-colored sweet pea of robust growth. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

ASTA OHN—Suffused lavender or tinted mauve sometimes with pinkish tinge. Spencer form, large and wavy. The best of the lavender sweet pea. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

CONSTANCE HINTON—Probably the largest White Spencer yet introduced. The flowers have a slight tint of pink when young and are borne almost uniformly in four flowered sprays on long stout stems. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

COUNTESS—Bright clear pink, sometimes darker toward the edges; very large, open form; long stems. The first variety introduced of the Spencer type and still the best deep pink sweet pea. Pkt., 10c; oz., 25c; ¼ lb., 90c; lb., \$3.25.

DOBBIE'S CREAM—Flowers a deep cream or primrose. Distinctly waved or crimped. One of the best of the primrose class. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

HERCULES—A magnificent soft, rose pink; flowers extra large. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

KING WHITE—The form, size, vigor, waviness and purity of color give pre-eminence to its claim as the best Spencer yet introduced. Seed white. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

KING EDWARD VII—The best pure red Spencer; a fine flower. Pkt., 10c; oz., 25c; ¼ lb., 90c; lb., \$3.25; parcel post paid.

MRS. ROUTZAHN—A most attractive Spencer of largest size and very graceful form; apricot and buff, shaded light rose at edges. One of the very best cream pink sweet peas. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

MARGARET ATLEE is a rosy, salmon-pink on a creamy buff ground; a rich, soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large and wavy and inclined to double. It runs almost uniformly four blossoms to the stem; well poised and graceful. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

MASTERPIECE—A very beautiful shade of lavender. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

NEW BUTTERCUP—Rich, deep cream, large flower. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; lb., \$4.00.

ROYAL PURPLE—A rich purple; one of the finest and most pleasing colors. Pkt., 10c; oz., 35c; ¼ lb., \$1.25; lb., 4.00.

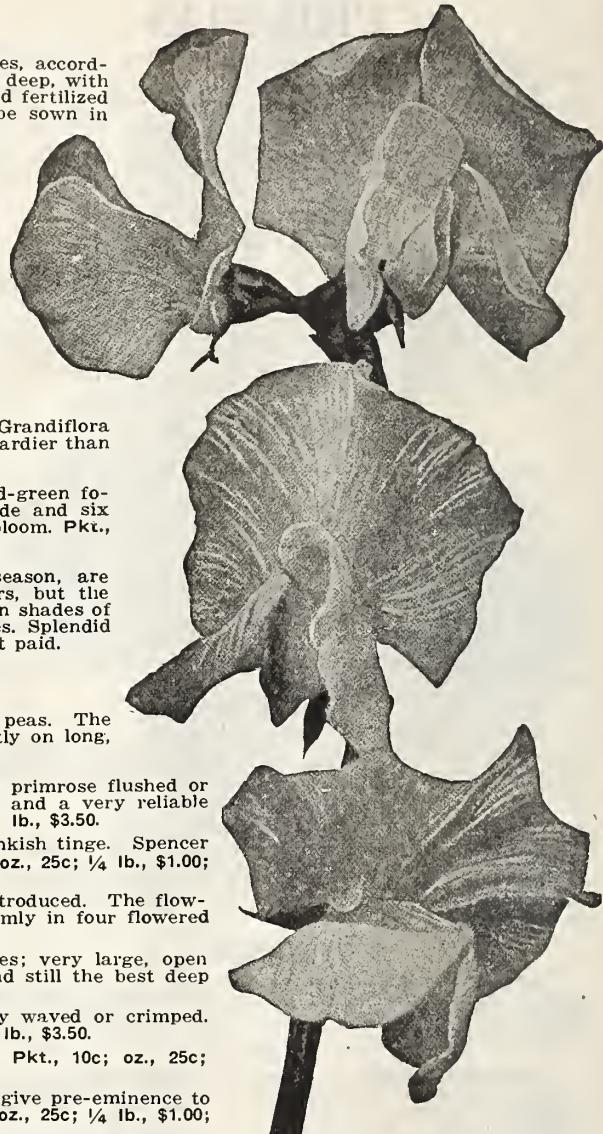
OTHELLO—Deep, rich maroon purple; very dark. Pkt., 10c; oz., 25c; ¼ lb., \$1.00; lb., \$3.50.

EARLY FLOWERING "SPENCER" SWEET PEAS

Fully as large flowered as the other Spencers, come into bloom from two to three weeks earlier and flower throughout the season. Don't fail to plant them.

EARLY AMETHYST—A royal purple color with very large blossoms. Pkt., 20c; oz., 75c.

EARLY MORNING STAR—Deep orange-scarlet or flame color in standard, with rich orange-pink wings. Flowers are



Mrs. Routzahn Spencer

large and waved, borne in threes and fours abundantly. Pkt., 15c; oz., 60c.

EARLY SNOWFLAKE—The blossoms are very large and of the best waved form, resembling the noted White Spencer; a free bloomer, with good, long stems. Pkt., 15c; oz., 60c.

EARLY YARRAWA—Rose color on first opening, changing as it develops to a charming combination of light pink standards and blush wings of vigorous habit. Pkt., 15c; oz., 60c.

EARLY KING—A very bright crimson; one of the finest of the earliest flowering Spencers. Pkt., 15c; oz., 60c.

EARLY SONGSTER—A very beautiful shade of rich lavender. Pkt., 15c; oz., 60c.

R.-H. CO.'S EARLY FLOWERING MIXED SPENCERS A rare combination containing all the shades of early flowering Spencers. Pkt., 10c; oz., 50c.

SPECIAL—One packet of above seven Early Flowering Spencer Sweet Peas for 75c; parcel post paid.

This Great Collection of Superb Spencer Sweet Peas—nine liberal packets for 50c postpaid. One each of the following varieties.

ASTA OHN SPENCER—Finest lavender.

HERCULES SPENCER—Soft rose pink.

COUNTESS SPENCER—Clear pink.

KING WHITE SPENCER—Largest white.

APPLE BLOSSOM SPENCER—Tinted rose and pink.

MARGARET ATLEE SPENCER—Salmon pink.

KING EDWARD VII SPENCER—Bright crimson.

MRS. ROUTZAHN SPENCER—Buff pink.

ROYAL PURPLE SPENCER—A rich purple.

BULBS FOR SPRING PLANTING

GLADIOLI

One of the best and most certain flowering bulbs. Plant at intervals from March to July.

FINEST MIXED HYBRIDS—By mail: Doz., 50c. By express: Doz., 40c; 100, \$3.00.

SEPARATE COLORS

	Dozen	Parcel Post Paid
Scarlet and Crimson shades.....	\$0.50	\$0.60
White and Light shades.....	.60	.70
Yellow and Orange shades.....	.60	.70
Pink and Rose shades.....	.60	.70
Striped and Variegated shades.....	.50	.60

NAMED GLADIOLUS BULBS

AMERICA—Soft lavender pink; very fine.

AUGUSTA—Pure white, with blue anthers; tall.

BRENCHLEYNS—Intense scarlet, tall spike; very showy.

PANAMA—Darker pink than America and slightly larger.

MRS. FRANCIS KING—Bears immense flowers of flamingo-pink.

SCHWABEN—Pure, canary-yellow, shaded sulphur-yellow.

Price, any of the above: Doz., 70c; 100, \$5.00; parcel post paid. By express, at buyer's expense: Doz., 60c; 100, \$4.50.

CHOICE DAHLIAS

In Colors

Plant bulbs in March and April, 3 feet apart. The dahlia is one of the prettiest of our summer flowers.

Double Pink Double Yellow Double Scarlet
Double Purple Double White Double Striped
Each, 25c; doz., \$2.50; parcel post paid. Not prepaid: Each, 20c; doz., \$2.25.

FANCY NAMED SHOW DAHLIAS

COUNTESS OF LONSDALE—Rich salmon pink; a free blooming cactus form. Each, 40c; doz., \$4.00. By parcel post paid: Doz., \$4.25.

A. D. LIVONI—A grand show variety; the finest of the bright pinks. Each, 40c; doz., \$4.00. By parcel post, \$4.25.

MINA BURGLE—A perfect decorative dahlia; fine, large, bright red. Each, 45c; doz., \$4.75. By parcel post: \$5.00.

DELICE—Decorative type; glowing rosy pink. Each, 35c; doz., \$4.00. By parcel post: Doz., \$4.40.

SYLVIA—Mauve pink; extra large decorative type. Each, 35c; doz., \$4.00. By parcel post: Doz., \$4.25.

MISS MINNIE M'CULLOUGH—Fine, dark yellow, decorative dahlia. Each, 35c; doz., \$4.00; By parcel post: Doz., \$4.25.

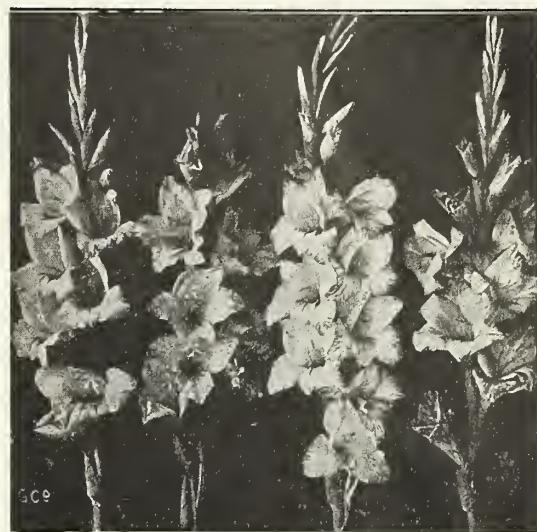
R H E I N KOENIG—A grand white cactus dahlia. Each, 40c; doz., \$4.00. By parcel post: Doz., \$4.25.

C U B A N GIANT—Fancy show, large purple dahlia. Each, 35c; doz., \$4.00. By parcel post: Doz., \$4.25.

S U M M E R FLOWERING BULBS—Order a few Gladoli, Tuberoses or Caladiums and you'll not regret it. Every August we issue a Fall Bulb Catalog. If you have not been receiving it next fall and getting it, write for set out a few Hyacinths and Tulips.



Yellow King Humbert Canna



Augusta Gladioli

SELECT CANNAS

Hungaria The new pink canna with green foliage, a beautiful shade of rose pink, 4 feet. Each, 20c; doz., \$2.00; parcel post paid. Not prepaid: Each, 15c; doz., \$1.75.

King Humbert Orange scarlet, bronze foliage, 4 feet. Each, 20c; doz., \$2.00; parcel post paid. Not prepaid: Each, 15c; doz., \$1.75.

Pennsylvania Fiery red, a beautiful flower, 3½ feet. Each, 15c; doz., \$1.50; parcel post paid. Not prepaid: Doz., \$1.40.

Chas. Henderson Crimson flower, very showy; plants, 4 feet, with green foliage. Each, 15c; doz., \$1.50; parcel post paid. Not prepaid: Doz., \$1.40.

Madam Crozy Scarlet bordered with golden yellow; 3½ feet, with green foliage. Each, 25c; doz., \$2.50; parcel post paid.

Orange Bedder Green foliage, very large orange scarlet flowers, 4 feet. Each, 25c; doz., \$2.50; parcel post paid.

Dazzler Vivid scarlet, 5 feet; extra large flowers, with green foliage. Each, 25c; doz., \$2.50; parcel post paid.

Yellow King Humbert Yellow dotted red, green foliage, 4 feet. Each, 40c; doz., \$4.00; parcel post paid.

Wyoming Yellow with crimson markings; a beautiful shade; bronze foliage, 5 feet. Each, 25c; doz., \$2.50; parcel post paid.

Eureka Best white canna yet introduced; large flowers; green foliage; 4 feet. Each, 25c; doz., \$2.50; parcel post paid.

Meteor Immense blood red flowers; foliage green; 5 feet. Each, 25c; doz., \$2.50; parcel post paid.

Mrs. Alfred Conrad Large, exquisite pink; one of the best cannas yet introduced. Each, 25c; doz., \$2.50; parcel post paid.

SPECIAL BARGAIN CANNA BULBS

Orchid Flowering Varieties.

Indiana Six feet; soft orange, margined deep rose.

Allemania Yellow, interlaced with blood orange; 5 feet.

Louisiana Dark scarlet with orange throat; 6 feet. Doz., \$1.00; 100, \$5.00. By parcel post: Doz., \$1.15; 100, \$5.40.

PEONIES

The old fashioned Peony *Officinalis* of our grandmother's garden, while still popular because of their early flowering, have been eclipsed by the wonderful improved sorts introduced in recent years. They are the "Queen of Spring Flowers," and are well adapted for massing in beds, and particularly valuable for planting in groups throughout the perennial or shrubby border where their brilliant hues add attraction to all around.

An important point to observe in the planting of Herbaceous Peonies is not to plant to deep. The roots should be placed so that the crowns are covered with 2 inches of soil. Too deep planting is a frequent cause of shy flowering.

Marguerita Gerard Fine pink on creamy white. Each, \$1.00; doz., \$5.00; parcel post paid.

Edulis Superba Deep rose pink. Each, 50c; doz., \$5.00; parcel post paid.

Festiva Maxima This is the finest white. Each, 50c; doz., \$5.00; parcel post paid.

Madam Lebon Cherry red. Each, 50c; doz., \$5.00; parcel post paid.

Floral Treasure A pleasing pink; a beautiful shade. Each, \$1.00; doz., \$10.00; parcel post paid.

Mrs. Lowe White, free bloomer, midseason. Each, 35c; doz., \$4.00; parcel post paid.

Monsieur Paillet Violet rose; good bloomer; midseason. Each, 35c; doz., \$4.00; parcel post paid.

Louise VonHoutte Very brilliant red. Each, 35c; doz., \$4.00; parcel post paid.

Ceres Orange scarlet. Each, 35c; doz., \$4.00; parcel post paid.

Duc DeCazes Very dark pink. Each, 35c; doz., \$4.00; parcel post paid.

UNNAMED PEONIES

These are all select bulbs true to color as listed.

Double Crimson Each, 30c; doz., \$3.25; parcel post paid.

Double Pink Each, 30c; doz., \$3.25; parcel post paid.

Double White Each, 30c; doz., \$3.25; parcel post paid.

By express deduct 5c on single and 25c on dozen prices.



Lillium Speciosum Album



Mrs. Lowe Peony

GERMAN IRIS

Cherion Standard lavender, falls purple; 2 feet in height. Each, 20c; doz., \$2.25; parcel post paid.

Madam Chereau White frilled with clear blue. Each, 20c; doz., \$2.25; parcel post paid.

FALL BULBS

Our Fall Catalogue and Price List will be ready in September. We import direct from growers a very select stock of Dutch Hyacinths, Tulips, Narcissus, Crocus, etc. Don't fail to write for a copy of Fall Catalogue.

HARDY LILIES

Lillium Auratum (Gold-Banded Lily)—The most beautiful and popular variety of all the lily family; should be in every garden. Flowers white, dotted crimson with a clear golden band running through the center of each petal; very fragrant. Each, 40c; doz., \$4.00; parcel post paid. Not prepaid: Each, 35c; doz., \$3.50.

Speciosum Rubrum This is one of the most popular and satisfactory of all lilies and is considered by many as one of the finest of all lilies. The flowers are bright crimson and white spotted. Splendid large flowers are borne in clusters with stems 2 to 3 feet long. Each, 40c; doz., \$4.00; parcel post paid. Not prepaid: Each, 35c; doz., \$3.50.

Speciosum Album This is one of the large flowers, pure white with a green band running through the center of each petal. One of the best. Each, 40c; doz., \$4.00; parcel post paid. Not prepaid: Each, 30c; doz., \$3.50.

Lilium Longiflorum Very much like the Bermuda Easter Lily. Flowers trumpet-shaped and very fragrant. Each, 40c; doz., \$4.00; parcel post paid. Not prepaid: Each, 35c; doz., \$3.50.

Caladium Esculentum Elephant's Ears. Each, 20c; doz., \$2.00; parcel post paid. By freight: Each, 15c; doz., \$1.50.

Alacasia Also called upright caladiums on account of having stiff upright dark green leaves. Price: Each, \$2.50 and \$2.00, according to size.

Tuberose, Double Pearl Doz., 75c; parcel post paid. By freight: Doz., 60c; 100, \$4.75.

MADERIA VINE

A favorite tuberous-rooted climbing plant with dense and beautiful shining foliage and of very rapid growth, twining on strings to a great height or forming garlands in many fanciful forms. It will grow anywhere, but does best in a warm, sheltered, sunny location. It is also a very pretty plant for training around the windows of the house. Doz., \$1.00; parcel post paid.

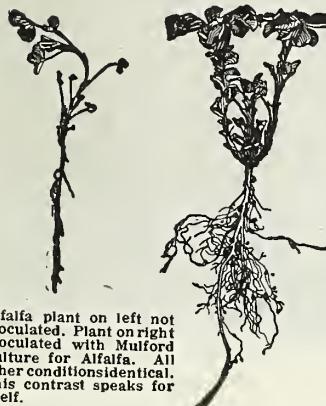
AMATEUR'S GARDEN GUIDE

Special planting instructions for sowing all kinds of vegetables and flower seeds, setting fruit trees, roses, strawberry plants, sowing grasses and clover seeds, supplied free with orders. This is a 16-page booklet, full of useful information. Don't fail to get a copy.

Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches, and All Other Legume Crops, with

Mulford Cultures

FOR LEGUMES

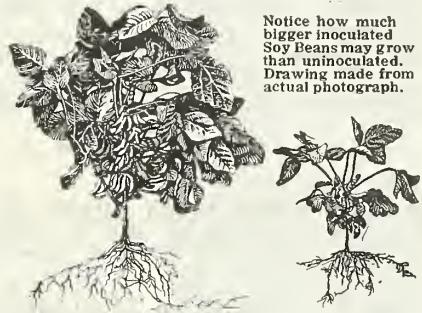


Alfalfa plant on left not inoculated. Plant on right inoculated with Mulford Culture for Alfalfa. All other conditions identical. This contrast speaks for itself.

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Increase Your Crops Improve Your Soil

Legumes Offer the Best Known Means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton, corn, and other non-legume crops.



Notice how much bigger inoculated Soy Beans may grow than uninoculated. Drawing made from actual photograph.

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

ALFALFA
CRIMSON CLOVER
SWEET CLOVER
WHITE CLOVER

RED CLOVER
ALSIKE CLOVER
LESPEDEZA
COW PEAS

SOY BEANS
PEANUTS
VETCH
VELVET BEANS

SWEET PEAS
GARDEN PEAS
GARDEN BEANS
LIMA BEANS

MULFORD CULTURES are supplied for the varieties of legumes listed, at the following prices:

5-Acre Size.....	\$5.00; parcel post paid
1-Acre Size.....	1.50; parcel post paid
1-Acre Size.....	.75; parcel post paid
Small Size, (Supplied only in 4 varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas).....	.35; parcel post paid

Why buy expensive commercial nitrates when you can grow Legume crops and thus increase your yield and at the same time increase the nitrates and enrich and renovate your soil, by Nature's own method?

FREE DESCRIPTIVE FOLDER SENT UPON REQUEST

The
Standard
Inoculation



High-Bred
Nitrogen-
Gathering
Bacteria

Alfalfa, Clovers, Soja Beans, Cow Peas, Lespedeza, Velvet Beans, Peanuts, Vetch, Garden Beans, English Peas, and all other pod-growing plants called legumes, enrich the soil through the action of small bacteria growing upon their roots. These bacteria live only upon the roots of legumes, and by an action of their bodies extract the free nitrogen of the air, and deposit it around themselves as nitrates, thus forming little sacks or nodules on the roots of the growing plants. These sacks furnish the growing plant with all the nitrates it requires, and still leaves large amounts unused in the soil, ready for future crops or other crops growing at the same time with the legumes.

TREAT THESE SEEDS WITH FARMOGERM

All of these seeds make a stronger growth and will add more nitrogen to the soil if they are inoculated with Farmogerm. Their cultures are all different; in ordering be sure to state what crop you wish to inoculate.

Alfalfa	Burr Clover	Soy Beans
Red Clover	Sweet Clover	Vetch (Spring and Winter)
Crimson Clover	Japan Clover	
Alsike Clover	Cow Peas	Peanuts
White Clover	Velvet Beans	Lespedeza

All of our cultures are one uniform price:
12-acre size bottle.....\$9.00
3-acre size bottle.....2.50
1-acre size bottle.....1.00
No. 5 for Garden Peas, Garden Beans, and Sweet Peas.....50

The No. 5 composite mixture is prepared especially for the home garden in the garden or $\frac{1}{4}$ -acre size. 50c each.
Above prices are all parcel post paid.

FARMOGERM

is a pure culture or growth of nitrogen-fixing bacteria that have been selected and bred up to transform large amounts of nitrogen from the air into soluble nitrates. These bacteria are grown in a jelly or feed, in which they remain active for long periods of time, and are sent out in a bottle which admits the necessary supply of pure air, yet keeps out destructive contamination. If Alfalfa can be grown on hot, sandy land of South New Jersey, why can't you grow it?

RUSSELL-HECKLE'S FARM SEEDS

SELECTED WITH CARE

We believe that few seedsmen give as close attention as we do to the quality of the farm seeds they handle. So much depends on the seed the farmer plants that it should be the aim of every seedsmen to furnish the **BEST FARM SEEDS THAT CAN BE PRODUCED**. Our large warehouse and elevator is equipped with the latest and best cleaning mills and with other machinery of our own invention, which enables us to reclean our farm seeds so that they are second to none, no matter what other seedsmen may claim.

The prices quoted on all farm seeds are based on market values at the time of going to press. Values may advance or decline, according to market. We are often able to make material reduction during Winter and Spring to purchasers in large lots. We invite correspondence.

OUR FARM AND SEED PRICE LIST will be mailed promptly on application, and if the market declines or anyone quotes you a lower price than ours in this catalog, please write us a postal card and ask for our Farm Seed Price List. It will save you money.

CLOVERS

R.-H. Co.'s Top Notch Alfalfa This is our best grade of domestic alfalfa seed. Will test 99-50 per cent purity. The very finest quality and thoroughly recleaned. Lb., 40c; parcel post paid.



R.-H. Co.'s Dakota No. 12 Alfalfa

R.-H. Co's Dakota No. 12 Alfalfa This variety is the result of years of careful breeding and represents the highest type of alfalfa. Dakota produces exceptionally hardy alfalfa, practically immune to Winter-killing. Stands drought and heat as well. Recommended by Mississippi Experiment Station at Stoneville. Our seed is the genuine Dakota No. 12 stock. Lb., 45c; parcel post paid.

Grimm Alfalfa There has been a demand for alfalfa that is more than the regular stock and it has been found that the Grimm Alfalfa has proven itself hardier and a better variety for many sections. Having the branching root system, while most all types have the single tap-root, consequently will stand all variation of temperature much better. Our stock is genuine Grimm seed. Lb., 70c; parcel post paid.

White Flowered Sweet Clover Sweet clover is valuable to grow and thrive on the poorest and most barren places. It will not only thrive on soils that are too poor for any other crop but will improve the soil it is growing on. It makes good hay and good pasture, although cattle do not always take to it at first. It resembles Alsike Clover in that it can grow on moist soils.

Its ability to improve the soil, together with its ability to thrive on very poor soils, makes it especially valuable as a pioneer crop on poor, run down, badly washed fields.

The seed can be sown either in the Fall or Spring and about 20 pounds of the hulled seed and 25 pounds of the un-hulled seed planted to the acre.

Unhulled seed, 1 pound, 35c; parcel post paid.
Hulled seed, 1 pound, 50c; parcel post paid.



R.-H. Co.'s Top Notch Red Clover

MULFORD CULTURES—We recommend and sell Mulford Cultures for legumes to inoculate your alfalfa, clovers, cowpeas, soy beans, vetches and all other legume crops. Small cost; large returns; easy to use; no labor expense.

Prices: Mulford Cultures are supplied for the varieties of legumes listed at the following prices: 5-acre size ("A Dollar per acre"), \$5.00; 1-acre size, \$1.50; garden size, (1/4-acre) 75c.

Lespedeza or Japan Japan Clover is a promising crop throughout the Middle and Southern states. It grows rapidly practically anywhere. Once started it soon spreads and makes a steady growth of the finest and most nutritious pasture, much relished by all stock. On stony hillsides or waste lands it will grow well, also on low or wet lands. It is a great crop and the wise planter will sow some no matter what the price. It should be planted at the rate of one bushel to the acre, during February and March, or even as late as April and into May. Sow it broadcast on growing grain, if you like. If sown on sod, the land should first be scarified with a disc harrow in order to give the seed a good seed bed. It thrives on very poor soils and continually improves them, at the same time yielding a highly profitable and nutritious forage. It will yield as high as two tons to the acre and frequently more. Many customers broadcast Lespedeza in February and March on both wheat and fall sown oats. Our Lespedeza seed is all recleaned. Lb., 40c; parcel post paid.

R.-H. Co.'s Top Notch Red This is the common Red Clover so popular everywhere—the farmer's friend, the soil restorer, the bountiful feed plant. Our Top Notch brand is strictly fancy recleaned and will test 99-50 per cent pure. Sow 10 pounds to the acre. Lb., 40c; parcel post paid.

Mammoth Sapling, or Peavine Very much like the common Red Clover, but larger, heavier and later. Recommended for thin soils. Sow 10 or 12 pounds to the acre. Lb., 45c; parcel post paid.

Alsike The best variety for low, wet land; makes good hay and pasture. On good bottom land use 8 lbs. to the acre. Sow in March and April. Lb., 40c; parcel post paid.

White Dutch Excellent for pasture or lawns. Sow any time in early spring or fall months, 5 to 6 lbs. per acre. Lb., 65c; parcel post paid.

Crimson Makes excellent green foliage, or if cut when in bloom will make good hay. Especially valuable for improving the soil, making a quick, heavy and very valuable crop for plowing under. Sow 15 pounds to the acre from July to November. Lb., 35c; parcel post paid.

Spotted Burr Sown in August and September. Makes superior pasture, fair hay, and grows on any thin land, and if turned under the following spring acts as a splendid fertilizer. Sow 20 lbs. of burs to the acre. Ask price in July.

GRASS SEEDS

SUDAN GRASS

One of the most remarkable forage crops grown. Sudan is probably the wild original form of the cultivated Sorghums. It is a tall annual grass growing under favorable conditions to a height of 6 to 10 feet, but when broadcasted thickly, it grows only 3 to 5 feet high. The stems are fine, the largest stalks seldom larger than a lead pencil. Where the plants are scattered, they stool abundantly, as many as 100 stalks coming from a single root. In general appearance, Sudan Grass is much like Johnson Grass, but they are entirely distinct, for Sudan Grass lacks root stocks, and therefore, never becomes troublesome as a weed. The stems are leafy, erect, and seldom lodging. The grass cures easily, making hay of excellent quality, which is readily eaten by all kinds of live stock.

Use 5 pounds per acre if in cultivated rows; 10 pounds per acre in drills, and 20 to 30 pounds per acre broadcast. It should not be planted until all danger of frost is past and the ground thoroughly warm, as the young plant is tender. Should be sown only on rich land.

The crop should be cut as soon as the grass is fully headed, and early cutting is advised where crop is used for hay. If grown for seed it should be cut when the seed is ripe and fully matured. It may be harvested with a mower or grain binder. If planted in drills it can be readily harvested with a corn binder. When sown for seed it is best to bind it as it is much easier to handle in threshing. Price: 1 lb., 20c; parcel post paid.

"BILLION DOLLAR GRASS"

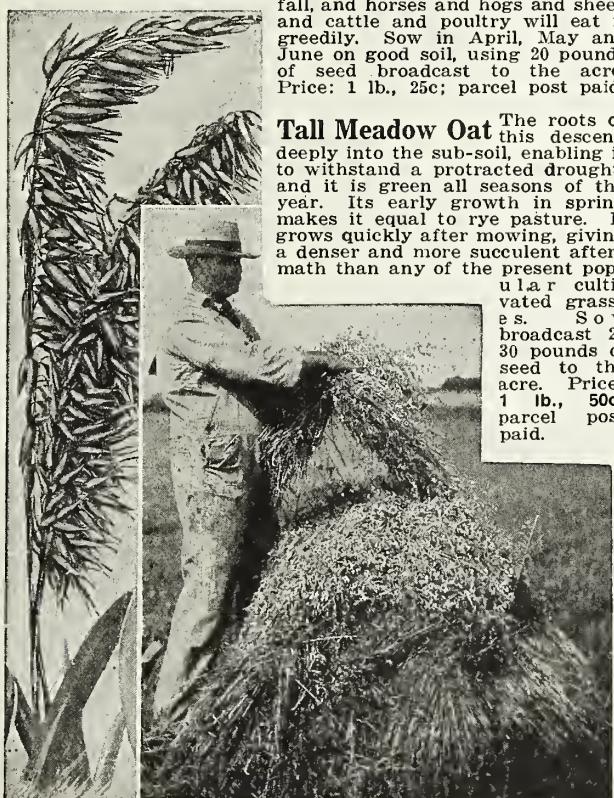
ESPECIALLY VALUABLE FOR SILO AND FOR FEEDING

GREEN—BETTER THAN THE BEST CORN FODDER

From Japan, that mysterious country, which is furnishing (and has furnished in the past) many rare farm seeds, comes this remarkable grass—remarkable in a hundred different ways, for there is nothing known to man today that is more luxuriant, more prolific, more marvelously rich and vigorous in growth than Billion Dollar Grass. It will produce a hay crop in from six to ten weeks, anywhere, and if sown the first of May it will be ready to cut the middle of July for hay.

You can get two or three rich crops from the same annual, and then a big lot of fodder besides. If you sow early you will get from 20,000 to 50,000 pounds of fodder, which you can put in your silo or cure for hay. Billion Dollar Grass will quickly spring up again and give you another yield that will astonish the country. This can be cut again for hay; then the field will give you a pasture all fall, and horses and hogs and sheep and cattle and poultry will eat it greedily. Sow in April, May and June on good soil, using 20 pounds of seed broadcast to the acre. Price: 1 lb., 25c; parcel post paid.

Tall Meadow Oat The roots of this descend deeply into the sub-soil, enabling it to withstand a protracted drought, and it is green all seasons of the year. Its early growth in spring makes it equal to rye pasture. It grows quickly after mowing, giving a denser and more succulent aftermath than any of the present popular cultivated grasses. Sow broadcast 25 to 30 pounds of seed to the acre. Price: 1 lb., 50c; parcel post paid.



Tall Meadow Oat Grass

Kentucky Blue Sow in early spring or fall using 2 to 3 bushels of seed to the acre broadcast. Well adapted for lawns. Pound will sow 20x25 feet. Price: 1 lb., 70c; parcel post paid.

Canada Blue A little coarser, but more hardy than the Kentucky Blue. Sow 30 lbs. to the acre any time in the Spring. Price: 1 lb., 50c; parcel post paid.

Italian Rye Surpasses the perennial rye grass in earliness and nutrition and rapid growth. Indispensable for alternating. Lasts only two years, and of no use for permanent pasture. Particular as to soil, a moist, tenacious, fertile and of medium consistency being considered the best. On such it is considered one of the best grasses cut green. Sow 30 to 40 pounds to the acre. Lb., 25c; parcel post paid.

Perennial English Rye

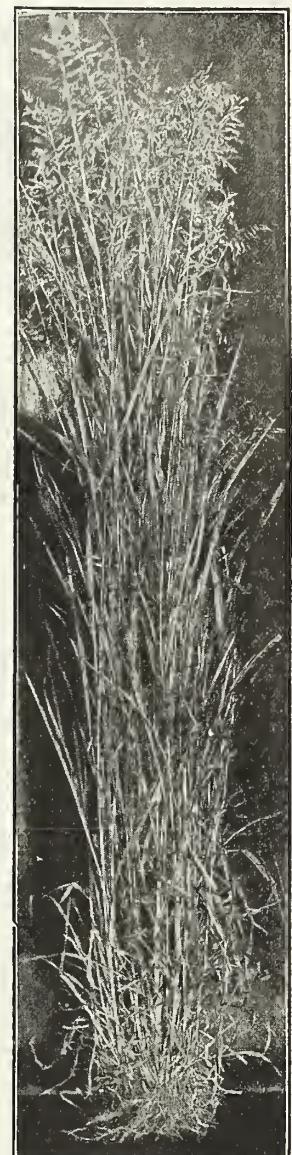
While this has long been highly esteemed in Europe and Australia, it has but recently been recognized by our Western ranchers. It is worthy of all the praise given. As a pasture grass it grows thick and withstands the drought reasonably well. 25c parcel post paid.

EVERGREEN MIXED LAWN GRASS

In the South we often have trouble in getting good because it has been found that no one grass will give satisfactory results at all seasons, and on all soils. By careful experiments we have succeeded in getting a combination of grasses that will produce an evergreen lawn, giving permanency and beauty of sward. By the use of our Evergreen Mixed Lawn Grass Seed a rich velvety lawn can be made and maintained. One pound will sow a space of 10 by 30 feet (or 300 square feet), 75 to 90 lbs. to an acre.

Price of seed: 1 lb., 60c; parcel post paid.

Shady Spot Lawn A special mixture of grasses adapted for shady situations. Lb., 75c; parcel post paid.



Sudan Grass

Permanent Pasture Grass Mixture Furnishes pasture all the season from early spring through the winter. Sow in early spring or fall, using 1 1/2 bushels to the acre. Lb., 35c; parcel post paid.

Permanent Meadow Grass Mixture A special mixture for a lasting hay crop. Sow in spring or fall, using 1 1/2 bushels to the acre. Lb., 35c; parcel post paid.

Permanent Hog Pasture Mixture A combination of mixed clover and best grass suitable for hog pasture. Sow in early spring or fall at rate of 1 bushel to the acre. Lb., 40c; parcel post paid.

Chicken Pasture Mixture A splendid mixture of grains, clover and grasses for green feed for chicken runs. Sow in February, March and September at the rate of 30 lbs., to the acre. Lb., 25c; parcel post paid.

Timothy and Alsike Mixed Suitable mixture for wet lands, furnishing good pasture and hay. Sow in early spring and fall 15 pounds of the mixed seed per acre. Lb., 35c; parcel post paid.



Red Top

Mixed with
Alsike Clover
it makes a
fine crop of
hay or
pasture.



Hubam



Timothy

HUBAM

THE FAMOUS NEW ANNUAL WHITE SWEET CLOVER
—This is the seed that has been selling for \$10.00 per pound and not enough seed to go around even at that price. We have it now at a price that will let everyone buy enough to get a start of the seed for himself.

Hubam is a legume crop, gathering nitrogen from the air and storing it in the soil, and greatly increasing the soil fertility. The old sweet clover is a biennial and rather slow to get its growth. Hubam is an annual and produces more grazing and more hay in one year than the biennial sweet clover does in two seasons. In tests, planted with a nurse crop, it has made a growth after the grain crop had been taken off of $2\frac{1}{2}$ feet and produced six times as much hay by weight as Medium Red Clover and three times as the Biennial White. Remarkable! It will make two cuttings of high quality hay in one season.

Hubam grows very fast—waist high in ninety days. The leaves are borne clear to the ground, quite unlike the ordinary biennial, and the whole plant is covered with blossoms, making excellent bee pasture as well as a big seed crop to be harvested. Five hundred pounds of seed per acre is the average.

Sow Hubam as early as possible in the Spring, just as soon as the ground can be worked, drilling in rows eighteen inches apart covering only about half inch. You can get by on as little as four pounds of seed per acre but as seed gets cheaper about twelve pounds per acre would be better. It can be sown on top of snow to good advantage broadcast.

Hubam makes the finest kind of pasture, all stock like it. Splendid hay is produced ready to cut about ninety days after seeding. It is not coarse especially when seeded close.

Hubam seems to thrive anywhere north or south, east or west. Like all clovers it prefers soil that has been limed, but it does not absolutely require lime. Hubam was first observed in a small limestone section of Alabama but credit for bringing it into commercial prominence goes to the Iowa State Agricultural College. Hubam will grow as high as seven feet if allowed to, making a luxuriant plant loaded from top to bottom with blooms and seed. Think of it.

Plant a small acreage in Hubam, the wonder clover, by all means. Price: Per single pounds, \$2.00; parcel post paid.

RED TOP or HERD'S

This is especially valuable for sowing on your sour or acid soils, swampy or meadow lands liable to overflow, and also on soils that are not rich enough for Timothy and other grasses or clovers. Mixed with Alsike Clover it makes a fine crop of hay or excellent pasture. Red Top makes a very dense sod that will stand trampling and will continue to grow for a longer time during the year than almost any other grass.

On good soil it will grow two feet high, but it should be fed close, as when it grows up to seed cattle do not like it.

Eight to 10 pounds of solid seed should be sown per acre and it may be sown either in the Spring or in the Fall and with or without some small grain as a nurse crop.

To make the best quality of hay it should be cut when in full flower. It is more easily cured than any other grass. Price: Fancy Recleaned Seed Top Notch Brand, 50c lb.; parcel post paid.

GRASS SEEDS

ORCHARD

No farmer should be without a small field of Orchard Grass as in many respects it is superior to all other grasses. It stands the drought, grows well in the shade, does well in wet or poor ground and is splendid to prevent worn out fields from washing. This grass furnishes excellent pasture three weeks before any other and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for Winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa; an average of 12 lbs., Orchard Grass, 6 to 8 lbs., alfalfa seeds. Sow 20 to 25 lbs. per acre. Lb., 45c; parcel post paid.

BERMUDA

A Southern grass that delights in sunshine and warmth. It is extensively cultivated in this section of the country for lawns. Very valuable for pasture as well as for hay crop. Grows vigorously during the hot Summer months when other grasses are parched and dead. On good soil will furnish two or more cuttings and frequently four tons of hay to the acre. It is very difficult to eradicate when once well established. The seed should be sown in February, March and April at the rate of 8 to 10 pounds per acre. A rainy or damp day is the best time to sow. As the seed is small it should be lightly covered. They will remain dormant possibly 30 days in the ground until proper time to germinate. Sound, clean seed. Lb., 60c; parcel post paid.

MEADOW FESCUE

An excellent pasture grass. Sow 30 lbs. to the acre in early Spring or Fall. Lb., 50c; post paid.

RHODES

A wide blade, tender leaf grass, succeeding well in the South. Can be used for hay and pastures. Heavy yielder. Best adapted to low, damp soil, stands severe frost, but if tops are killed, roots put out again. Grass best in Spring or Fall. Sow in April or May on well prepared land, 8 lbs. of seed per acre. Do not cover seed but use roller or drag to firm the soil. Lb., 90c; parcel post paid.

TIMOTHY

Eight to 10 pounds to the acre. As a crop for hay, Timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture as it will, in the course of a few years, run out. It is, however, well adapted to early Spring grazing, as it starts up quickly in the Spring and in favorable weather can be pastured in the Autumn as well. The largest crops of hay are raised on rich land. It is not suited for light, sandy soil as well as some other grasses. Lb., 25c; parcel post paid.

SOY or SOJA BEANS

SOY BEANS AND COW PEAS SHOULD BE INOCULATED WITH MULFORD CULTURE

The Soy Bean is a legume, and in nutritive value is equal to Red Clover. As a soil improver, it is excellent. This plant will grow on a wide variety of soils, but the richer the soil the larger the yield of forage.

The increased use of Soja Beans is likely to continue, and we recommend the growing of this crop to our Southern farmers as likely to prove very profitable in the future. They are also a particularly valuable crop for growing in boll weevil sections in place of cotton.

CULTURE—The land should be prepared as for cow peas, and the seed planted in drills at a sufficient distance to permit one or two cultivations. One bushel of seed will plant two or three acres, the amount depending on the distance between the rows. The planting should be shallow, never more than one inch, or many of the seed will decay. This is a very important point to remember. Inoculation with soil from any old soy bean field is not usually necessary. If wanted for hay the crop should be cut when the upper leaves begin to turn yellow, but if wanted for seed the gathering should be delayed until nearly all the leaves have fallen. The hay is easily cured and is nearly as nutritious as alfalfa hay. The seed planted in drills at a sufficient distance to permit cultivation, using $\frac{1}{2}$ bushel of seed per acre. It is also sown broadcast at the rate of one bushel to the acre. Soy Beans may follow a crop of rye or barley. Sowing thickly will prevent the stalks from growing too coarse, and will enable them to be harvested and cured to better advantage. Drill in corn rows. One peck to the acre will help the soil and make fine hog pasture.

Mammoth Yellow Soy The largest growing and most popular of Soja Beans for forage purposes. A little later in maturity than other kinds, but makes larger yields, both of forage and seed. Qt., 35c; post paid.

BILOXI SOY BEANS

Of all the varieties of Soy Beans the Biloxi probably grows more rank than any. It takes longer than some to mature its grain but it is a very heavy yielder and not easily shattered in harvesting, which is a big advantage. Planted in the corn or in the row with corn for silage it grows over six feet high. For grazing, for hogging down with corn, for soiling it is unexcelled. The Biloxi is an upstanding plant, having no runners to spread over everything in sight. This means a great deal to the orchardist, who wants a cover crop to cover the ground only.

Biloxi should be planted in rows from three to five feet wide and ten inches apart in the drill. One or two inches is the right depth. For silage they can be planted in the row with corn or a row of corn and a row of beans. Where corn is planted in six or seven foot rows you can drill a row of beans in the middle. When matured seventy-five per cent of the beans can be saved by running a harvester between the rows of standing corn, leaving the vines to be grazed off or turned under for soil improvement.

The Biloxi Soy Bean will make good hay if planted late in three foot rows thick enough in the drill to subdue its natural growth. It takes a little longer to mature than the Mammoth Yellow, therefore must be given a little longer season but its wonderful rank growth makes up for this disadvantage. It stands ahead of Mammoth Yellow, which is the standard commercial soy bean, both in oil percentage and protein percentage.



Mammoth Yellow Soy Beans

It is especially valuable to the rice lands as a green manure and also valuable for forage and ensilage. The seeds are deep brown, much flattened and a little larger than the Mammoth Yellow. They seem to do well on stiff heavy soils as well as on light sandy soils. Cultivate your soys well and you will be surprised at the results. Price: Qt., 90c; parcel post paid.

VELVET BEANS

MAKES AN ENORMOUS FOLIAGE GROWTH; GREATEST SOIL-IMPROVING CROP GROWN WITH LEAST EXPENSE

Velvet Beans make an enormous growth of vines; greater, in fact, than any other known forage plant, in the same length of time, far surpassing the cow pea in yield. Velvet Beans are usually planted in rows four or five feet apart, at the rate of about half a bushel per acre. As a soil-improver they are considered superior to cow peas, as they make so much larger growth and so much heavier amount of foliage. The proportion of nitrogen contained in the vines is about the same as in cow peas, and as the yield is so much greater, the total amounts of nitrogen and humus added to the soil are correspondingly larger. A crop of three tons will add much nitrogen to the soil as will a ton of cottonseed meal, while the amount of humus will be three times as great.

Osceola This newest velvet bean has several advantages over the early speckled varieties. It is free from the stinging fuzz or velvet on the pods, which makes the other varieties very unpleasant to handle. It has larger beans and pods, making them less expensive to gather, and is also much earlier than most of the others. Qt., 40c; parcel post paid.

Early Speckled 90-Day Velvet This new velvet bean wherever it is planted. It is the quickest growing and earliest maturing of the velvet beans, and is well adapted for growing in districts further north than velvet beans ordinarily have been grown. It will succeed and mature from Tennessee southward, and will make a large growth in more northerly sections, even where it does not mature the seeds. It makes a wonderful soil-improver and forage crop and the best for grazing for cattle, and is, in our opinion, destined to very largely take the place of other velvet beans all through the East and Middle South. Qt., 35c; parcel post paid.

FIELD BEANS

White Navy Largely grown in many sections as a commercial bean. Vines are very prolific, producing a large quantity of shelled beans per acre. Qt., 55c; parcel post paid.

Mexican Pinto This is a popular bean in Mexico, and should be grown more largely here. As a table bean. It is excellent, both as a dry and green shelled bean. Qt., 60c; parcel post paid.

Red Kidney The good old-fashioned baking bean. The beans are of large size and very rich flavor. Price: Same as White Navy.

THE VETCHES

AUGUSTA—This, like field peas, is used for both green fodder and for plowing into the soil. Its use is rapidly increasing as a green fodder crop. Lb., 25c; parcel post paid.

HAIRY—For pasturing or feeding as green fodder it is very valuable, and nearly equal to clover for fertilizing. Sown with grain it requires one peck of seed to each acre. Sow in September and October. Lb., 35c; parcel post paid.

BUCKWHEAT

Sow three pecks to one bushel to the acre.

It can be sown so late as to prove a profitable second crop to follow early peas, potatoes, etc. Good pasture for bees.

JAPANESE—It proves to be two weeks earlier than Silver Hull, both being planted at the same time. Kernels are peculiar and distinct. Makes a superior grade of flour. Lb., 25c; parcel post paid.

Mammoth Russian Sunflower

A more profitable or important crop can hardly be raised. The seed is highly valued by farmers and poultry breeders, who have tried it. Single heads measure from 12 to 22 inches in diameter, and contain a lot of seed, which can be raised much cheaper than corn. Plant 6 lbs. to the acre in drills. Lb., 25c; 3 lbs., 60c; parcel post paid.

BROOM CORN

IMPROVED EVERGREEN—An excellent variety of good length, has fine, straight straws. Sow in April, one gallon to the acre. Lb., 20c; parcel post paid.

OKLAHOMA DWARF—Straight, stiff stems and leaf; markets readily. Lb., 25c; parcel post paid.

CANE

Texas Seeded Ribbon This cane gets its name from being a variety that closely resembles the true Ribbon Cane, raised from cuttings. It makes the finest kind of syrup. Lb., 25c; parcel post paid.

Japanese Honey This variety of cane is without a doubt the best all-around cane for the Southern farmers. It is the very best syrup producer of all of the varieties and is also a splendid forage crop for green feeding, making excellent hay if sown in drills very thick, and may be planted any time between April and August. It grows 10 to 12 feet high and is very prolific, sometimes producing five to seven stalks from one seed. Matures about the middle of August to October, owing to time of planting, but will keep green and stand, if desired, until killed by frost, allowing the farmer to take his own time to harvest for syrup. As a syrup producer it has no equal, being exceedingly juicy and sweet, making from 200 to 400 gallons per acre, highly flavored. Lb., 25c; parcel post paid.

Early Orange A variety well adapted for the South. It is from 8 to 10 days later than the Early Amber, and produces a syrup of excellent quality. Lb., 20c; parcel post paid.

Early Amber Farmers and stockmen say that the Early Amber is the most valuable fodder plant in existence. It is profitably grown from Manitoba to Mexico on any good corn ground, and it but little affected by drouth. Lb., 20c; parcel post paid.

Red Top Sorghum Grown extensively in middle Tennessee. Very sweet and one of the best for hay. Lb., 20c; post paid.



Extra Early Burt, or Ninety-Day Oats

Seed Sow two bushels of any of the following varieties to the acre. Plant in February or March. Apply 300 lbs. of phosphate to acre at time of seeding. It will increase your crop.

Extra Early Burt, or Ninety-Day The quickest growing and most prolific yielding spring oats. The Extra Early Burt Oats handled by us is the genuine Tennessee grown stock. Is a sure header, coming to maturity ten days to two weeks earlier than the rust-proof or other varieties. Burt Oats are the best poor land oats known, also the safest and earliest to plant in the spring.

Genuine Fulghum Very hardy, rust proof, very heavy grain. Prices quoted on Green Ink List enclosed.

Texas Red Rust Proof The strain of this popular old favorite that we have is direct from the best growers in Texas, which is considered the most reliable for Southern planters. The grain is heavy, bright, and of fine quality. Prices quoted on Green Ink List enclosed.

Appler A very hardy variety, rust proof and a heavy yielder. Matures ten days earlier than native rust-proof and about a week later than Burt. For prices on Seed Oats see Special Green Ink List enclosed.

MILLETS

Tennessee Golden Our Southern grown millet makes much better growth than the Western grown seed. This true Tennessee grown, a type that produces better quality, grows taller and gives a larger yield of very nutritious hay, is a quick grower. It should be cut for hay when it begins to show the heads. Plant 1½ to 2 bushels an acre broadcast. Plant from April to August. The sowing of Southern Millet with cowpeas for a hay crop is increasing in favor each year. When this is done, use an early variety, such as Whippoorwill or New Era, sowing about ½ to a bushel of millet with one bushel of peas to an acre. Lb., 20c; parcel post paid.

Western Golden This variety is very similar to the Tennessee Golden; however, it does not produce quite as much hay, and the heads are not quite so large. Lb., 20c; parcel post paid.

Pearl, or Cat-Tail It is largely used by dairymen. Furnishing them green food throughout the summer. Should not be planted before May in warm soils, as

it is a tropical plant when it has reached the height of three to four feet, when it will stool out enormously and make a rapid growth. In this way 3 or 4 cuttings a season can be obtained. It can be fed either green or cured as dried forage, making a most nutritious feed which is relished by all kinds of stock. Sow 5 lbs. per acre in drills 3 feet apart or broadcast at the rate of 20 to 30 lbs. per acre. Lb., 45c; post paid.

Chufas Much used to fatten hogs. Plant in April, 12 inches apart, in 3-foot rows. Should be soaked before planting. One peck of seed per acre. Lb., 45c; parcel post paid.

Giant Beggar Weed The seed should be planted from broadcast like millet or may be planted in drills. Its growth attains a height of about two or three feet, while on rich ground will grow much higher. Ten to fifteen pounds are usually sown to the acre. It can be sown in corn at the last plowing and will afford a splendid pasture for hogs, cows, horses and other livestock. Lb., by mail, post paid; clean seed, 60 cents. For large quantities, write for special price.

KAFFIR CORN

White Kaffir Grows 4 to 5 feet high. The stems are very leafy and keep green and brittle, unlike other sorghums, which harden. Make excellent fodder, either green or dried. For grain, sow 5 pounds to the acre, in rows 3 feet apart. For fodder, sow from ½ to 1 bushel, either broadcast or in drills. Lb., 20c; parcel post paid.

Red Kaffir Grows taller than the white; stalks slender. juicy and very leafy. The seed is red, smaller than that of the white, and hard and brittle. Ripens earlier than that of the white and yields much heavier. Lb., 20c; parcel post paid.

Yellow Milo Maize A non-saccharine sorghum of high value; cultivated like corn. It is a vigorous grower, of deep green color, attaining a height of 8 to 10 feet. It will mature its main head in 100 days and will continue growing until frost. Plant in April, May or June 4 to 5 pounds of seed to an acre in drills. Lb., 20c; parcel post paid.

Egyptian Wheat, or Shallu A valuable new grain, entirely different from wheat. The heads are large and heavy. All stock love it, and do well on it. With milch cows it is superior to cotton seed for milk and butter. It makes hens lay better than any poultry food. The plant produces more and better fodder than cane. It will stand more wet or dry weather than maize or cane. Plant in drills 3 feet apart, using ten pounds of seed per acre, or broadcast, using from 2 to 4 bushels. Lb., 30c; parcel post paid.

Feterita somewhat similar to Kaffir Corn, with the exception that the grains are somewhat larger and softer than Kaffir Corn, and it is preferred by many on this account for feed in the head. It is about three or four weeks earlier than Kaffir Corn. It is undoubtedly the most drouth-resisting of any of the sorghum family. Sow in April or May, in drills, 3 lbs., to the acre. Lb., 20c; parcel post paid.

Schrock Kaffir-Sorghum Schrock Kaffir-Sorghum is unlike other grain sorghums for the reason that the seed will germinate readily when the ground is cold, and this is a great advantage in getting early feed and ensilage for silos. The seed should be sown in rows 3 feet apart; 3 lbs. of seed is sufficient to plant an acre. If planted early it will make three to ten heads on every plant. Plant the seed at least 2 inches deep. Lb., 30c; parcel post paid.

Upland Rice A valuable crop, more easily grown than corn, and is relished by all kinds of stock. Prepare the land and cultivate as for corn, using a bushel of seed per acre. Plant the seed in drills 24 inches. Lb., 45c; post paid.



White Kaffir Corn

DWARF ESSEX RAPE

The Most Profitable Pasture Plant in Existence

Rape is one of the quickest and cheapest pasture crops for sheep, young cattle, poultry and hogs. One acre of Dwarf Essex Rape will pasture more hogs, cattle and sheep than six acres of grass or clover. As a healthy, fattening pasture food it has no equal. It stands without a rival in cheapness and effectiveness.

It is an annual, bearing a close resemblance in leaf and stalk to the Rutabaga, but both leaves and stalk are more numerous in the Rape plant, and of a taller habit of growth. It is a pasture plant which may be eaten off by any kind of live stock, but it is pre-eminently fitted to furnish pasture for sheep, cattle and swine. A good crop will furnish at least 12 tons of green food, and its nutritive value is twice that of clover an acre. One acre of well grown rape will furnish pasture for twenty head of sheep, for two months, and will fatten them in good form for market. Dwarf Essex Rape thrives best on a good soil, rich in vegetable matter. Slough lands are excellent. This plant may be grown successfully in the following ways, viz.: 1. In the early spring to provide pasture. 2. In June or July, on well prepared land, to provide pasture. 3. Along with grain, using 5 lbs. of seed an acre, to provide pasture for sheep after harvest. 4. Along with peas, oats, clover seed, to provide pasture to get a "catch" of clover. 6. As a cover. Lb., 25c; parcel post paid.



Dwarf Essex Rape

Wonderful, or Unknown On account of the great growth of the vines, this variety is especially valuable. Matures late and requires a full season to give best results.

Brabham One of the best and most productive in growth and yield of shelled peas. It is a small, hard, speckled pea, about the size of the Iron and New Era. Will make two crops.

Mixed Preferred by many farmers where the crop is intended for soil-improving; they will grow thicker than separate varieties, producing better crop of vines and forage.

California Large White Black Eye This variety is not only valuable as forage and soil-improving crop, but the dried peas are readily salable as table peas during the winter.

White Cream, or Lady Fine for table use and a great soil enricher. Peas are small in size. Very prolific. Better to eat than Black Eyes.

Crowder Very prolific and an excellent variety for table use.

TEOSINTE

A Most Valuable and Enormous Yielding, Continuous Cutting Forage Crop

We strongly recommend to our customers who have not done so to sow this splendid forage crop. If a sufficient quantity is sown it will furnish a continuous daily supply of most nutritious green feed for horses and all kinds of cattle all through the summer. It also makes splendid dry fodder, yielding enormously and being more nutritious and even better relished by all kinds of stock than corn fodder. In appearance it somewhat resembles Indian Corn, but the leaves are much larger and broader, and stalks contain sweeter sap. It produces a great number of shoots, very thickly covered with leaves, yielding an abundance of forage. It stools out enormously after being cut, as many as forty-five stalks having been grown from a single seed. The first cutting can be made when it is 2 or 3 feet high. Sow in May or June at the rate of 2 or 3 lbs. per acre in drills, $3\frac{1}{2}$ to 4 feet apart. Ounce, 15c; $\frac{1}{2}$ lb., 25c; lb., 75c; parcel post paid. Write for prices in larger quantities.

PRICES

On account of catalog going to press before spring market has been established on all field seeds, we are unable to quote quantity prices. For current prices see Special Green Ink Price Sheet enclosed.

CALENDARS FREE

When you order any goods, if you request it, we will be pleased to mail you one of our 1922 calendars and almanacs

PEANUTS

CULTURE—Prepare the ground well, laying it off in rows with a shovel plow; the rows should be $3\frac{1}{2}$ feet apart, and put two kernels to the hill, which are about one foot apart. Cultivate thoroughly and keep the land as level as possible. One and one-half bushel of unshelled nuts will seed an acre.

Spanish In addition to their value for growing for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stock. They are early to mature, very productive, and in the far South, where they can be planted during March and April, two crops can be made in one year, the second crop being planted early in July, the tops making a hay crop and the nuts a grain crop. They grow more compact than the Virginia Peanuts, making it possible to grow them closer, making the cultivation easier also. This variety frequently yields sixty bushels of marketable peanuts and two tons of hay per acre. Lb., 25c; post paid.

Tennessee Red The finest variety grown. Especially adapted to the black, waxy land as well as the sandy soil. The nuts contain three large kernels in each and are enormously productive. Lb., 30c; parcel post paid.

Valencia This is the large improved Spanish Peanut, having 2 to 3 large, rich, sweet nuts in each hull. These need the best land and plenty of acid phosphate. When properly selected and sold as parched peanuts, they bring the highest prices. Lb., 30c; post paid.

Mammoth White Virginia Largest size; white variety. Lb., 30c; parcel post paid.

COW PEAS

Sow in May, June and July, at the rate of one to one and one-half bushels to the acre.

The value of cowpeas as a soil enricher is now well known. As fast as farmers understand the advantages of this plant as an agency through which the value of their land may be greatly increased, there will be more successful farmers and more profitable farms. It adds nitrogen to the soil at less cost than by any other method. Cowpeas make excellent hay.

Prices on cowpeas given on application. Let us know how many you will need.

Whippoorwill A favorite early bunch-growing variety. Seed is reddish brown speckled. A great favorite on account of its early maturity.

New Era An early, upright-growing variety; the seed is smaller. It is not inclined to run. Matures in sixty to seventy-five days.

Black Stock This is a large, late-vining variety. The vines grow very long. Best for thin land.

Clay Very similar to the Unknown, but earlier; vigorous growth; very popular.

Red Rippers One of the most prolific varieties of cowpeas. Vines grow long; makes an abundance of hay.

Weiner, Ark., 3-28-21.

Russell-Heckle Seed Co.,
Memphis, Tenn.

Gentlemen: Received plants and seed. Thank you for sending them. Both are in good condition.

Please quote us prices on Cow Peas, Looukout Mountain Potatoes, June delivery.

Respectfully yours,
DeGOOD MERC. CO.

RUSSELL-HECKLE'S SEED CORN

Corn is one of the most important crops, not only in the United States, but of the entire world. A good crop in the United States represents a farm value twice as great as the cotton crop. The South does not grow enough corn, mainly on account of the soil, but a great deal of the short yield can be traced to poor and unselected seed. We make a specialty of Fine Seed Corn, sell it cheap, so there is little excuse in not planting the best. Plant in April and up to July 15th; 4 to 6 quarts will plant 1 acre; rows should be 4 feet apart; plant 2 to 3 grains 2 feet apart in the row, thin to one stalk. Cultivate shallow. Use 300 lbs. Armour's Acid Phosphate to an acre.

All quotations are subject to important market changes. Special prices quoted on large amounts.

Cocke's Prolific This variety holds the highest record, and will in the near future break its own—50, 75 and 100 bushels per acre. This small corn has two to five perfectly formed ears with a peculiar droop so dear to scientific corn growers. It has a low, stout stalk, medium early, medium sized ears, pearl white grain in straight rows. The weevil bothers this variety very little on account of the hardness of the grain, which is of good size, short, flat and almost round; very flinty. This corn is evenly lined on a white cob of good size, often attaining the length of 10 inches. Matures in 140 days. Unexcelled for meal and hominy. Qt., 30c; gal., 75c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Neal's Paymaster This corn was originated in Williamson County, Tennessee. The grains and cob are pure white; the grains are deep, broad and set very solid on the cob, which is medium size. The stalks grow from 8 to 10 feet high. The ears are very uniform in size and shape, running from 9 to 12 inches in length, containing 16 to 20 rows, and averaging in weight from 1 pound to 1 1/4 pounds. This is a highly bred corn, containing a high percentage of protein. Maturing about medium, it is well filled at both butts and tip. Every stalk bears two well-developed ears. Qt., 30c; gal., 75c; parcel post paid. Not prepaid: Qt., 20c; 4 qts., 50c.

Russell-Heckle's Gourd Seed Red Cob This is our growing, a special stock, the pure white grains are narrow and nearly gourd seeds, and are set on a very small red cob, stalks produce two and three ears. They will average two ears all over the field. It is a big improvement over all other kinds of White Red Cob Corns, having a small cob with long firm grains, that are always sound and plump. Stalks medium, strong and stocky. This special stock is a genuine thoroughbred and you will be delighted with your yield and crop. It will mature in about 100 days. We have taken extra pains in selecting and hand shelling this splendid variety. This corn is a beauty, don't miss it. Qt., 40c; gal., 90c; parcel post paid. Not prepaid: Qt., 30c; gal., 65c.

This is our own

Snow Flake Large size, very early; a fine corn for early roasting ears; also makes an excellent field variety as it matures in 80 to 85 days. Qt., 30c; gal., 85c; parcel post paid. Not prepaid: Qt., 20c; 4 qts., 60c.

Tait's White Dent A pure white early corn, bearing two good ears to the stalk, maturing in 90 to 100 days. The cobs are unusually small for the size of the corn. The ears are medium sized, 14-rowed, and can be planted much thicker than a large corn and yet bear full-sized ears. Plant it for early crop as it makes before summer drouths. Qt., 35c; gal., 75c; parcel post paid. Not prepaid: Qt., 25c; gal., 55c.

Mosby's Prolific This is a Southern corn, and is recommended for general crop. It is purely white, small cob, deep grain, neither too hard nor too soft. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

North Carolina White Prolific A fine variety of white field corn. It is very hardy and can be planted very early as well as late. Qt., 35c; gal., 90c; parcel post paid. Not prepaid: Qt., 25c; gal., 70c.

Hickory King 100 days. The cob is very small, grain broad, white. Does well on thin land. It ripens in from 100 to 110 days from time of planting. The stock we offer comes from a breeder who took first prize at Tri-State Fair with this corn. This is something fine. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Hasting's Prolific Similar to North Carolina Prolific, but considerably larger; pure white ears, always sound and produce two to four ears on a stalk. Qt., 30c; gal., 75c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Russell-Heckle's Early White Dent One of the earliest. Planted on or about March 20, it will be ready to gather by July 1. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

PRICES

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A SQUARE DEAL

A SQUARE DEAL is positively given every customer who purchases his seed from us, and on account of changing prices that are prevailing we will undertake to protect our customers by giving them every advantage possible.

Cocke's Prolific

Russell-Heckle's Pride of the South Yellow The ears are of perfect fourteen straight rows of bright golden yellow grains, remarkable in size and filled out completely to the extreme end of the cob. The richness of color and fine quality of grain make it vastly superior for grinding into meal. The grains are not of a hard, flinty nature, neither are they so soft as to be greatly shriveled. The ears are easily shelled, although the kernels are firm on the ear, and in every respect present as perfect a type as could possibly be had. Matures in 100 days from planting and surpasses all in size and beauty of grain. Qt., 35c; gal., 90c; parcel post paid. Not prepaid: Qt., 25c; gal., 70c.

Reid's Early Yellow Dent This is a leading standard yellow variety. originated in Illinois many years ago, and is a type that experts have failed to change for the better. In our opinion this is the most popular variety of yellow corn grown in the United States. We offer fine stock of this leading standard variety, which is among the best all around purpose Yellow Dent Corn grown. Color deep yellow, with lighter cap. Grain very deep, closely packed; butts and tips almost entirely covered over. The leaves and stalks of Reid's Yellow Dent make fine ensilage and fodder. Well adapted for our Southern country. Matures in 90 days. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Iowa Gold Mine Large ears; grains are a bright golden yellow; matures in about 100 days. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Yellow Leaming A very early growing corn; matures in about 90 days; always dries out quickly, therefore a desirable variety for early crop. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

R.-H. Co.'s Ninety-Day Early Yellow Dent A standard variety; quick maturing. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Tennessee Mammoth Yellow A Southern-grown, large-eared yellow corn. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Mexican June This dependable variety, largely planted late in the spring throughout the entire Cotton Belt, originally came from Mexico. It is largely used for planting after oats and wheat. We do not advise sowing before May 1st if grain is wanted and can be planted as late as August 15th with good results. The stalks are usually short, although early plantings make stalks 12 to 15 feet high, leaves four to six feet long. The roots run deep and spread, so that it is a splendid drouth resister. Ears 8 to 9 inches long, grains short to medium, cobs medium in size, and while usually white, occasionally you'll find a red cob and a few blue grains. This apparent mixture of color is peculiar to many varieties of Mexican corn. Mighty fine for "roasting ears" for use right up to frost. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Red Cob White Ensilage The best known silage maker. Grows tall with an abundance of fodder and averages two good ears on good ground. If you have a silo to fill don't try common seed on poor soil. Plant a small acreage of Eureka and make it rich. Seed for this season limited. Place your order early; can be planted in June or after oats. Qt., 35c; gal., 90c; parcel post paid. Not prepaid: Qt., 25c; gal., 70c.

Tennessee White Red Cob

A large-eared, red cob corn; grain deep and large. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

St. Charles White Red Cob

Makes good stout stalk, medium height; ears about 8 inches long; pure white grain on medium red cob. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

Iowa Silver Mine It is a pure white corn, with large ears often measuring 10 to 11 inches in length and weighing as high as 1½ pounds each. Kernels are of unusual lengths, usually rough at the outer ends, and ears are splendidly filled out at the tips. The corn matures in about 100 days. Qt., 30c; gal., 70c; parcel post paid. Not prepaid: Qt., 20c; gal., 50c.

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Early Yellow Dent Corn

POP CORN

White Rice

Very easily popped, tender and white; the best for the market. Pkt., 10c; lb., 25c; parcel post paid.

Queen's Golden

A beautiful golden color; pops large, very crisp. Pkt., 15c; lb., 25c; parcel post paid.



Popcorn

Japanese Rice A great many people like to grow pop corn but there is so much difference in the popping qualities of the various varieties that one hesitates to offer anything in this line unless it has real merit. In this variety we have a dwarf growing corn, a heavy yielder of attractive ears, peculiar in form, but the grain is very similar to the best strain of White Rice Pop Corn. The ears are short and thick, and run very uniform. Of a pearly white and the grain is of excellent popping quality and flavor after being popped. Pkt., 10c; lb., 35c; parcel post paid.

SURPLUS NURSERY STOCK

One of our growers has a quantity of the following trees and plants which we offer at very low prices:

LOMBARDY POPLARS, 5 to 6 feet high, Doz., \$3.00; 100, \$20.00.

CAROLINA POPLARS, 5 to 6 feet high, Doz., \$3.50; 100, \$25.00.

WEEPING WILLOW, 3 to 5 feet high, Doz., \$3.50; 100, \$25.00.

No less than 12 sold at these low prices.

SHRUBS

One year. Doz., \$2.50; 100, \$20.00.

Following varieties:
Althea, *Deutzia*, *Calycanthus*, *Crepe Myrtle*, *Forsythia*, *Weigela*, *Snowberry*, *Barberry*, *Jap Quince*, *Tamarix*, *Hypericum*, *Honeysuckle*, *Lilac*, *Spirea*, *Van Houtte Spirea*, *Rosea*, *Spirea Alba*, *Spirea Bridal Wreath*.

Nothing under 12 shrubs at the above prices.

HEDGE PLANTS

CALIFORNIA PRIVET, 12 to 18 inch, 100, \$3.00.

CALIFORNIA PRIVET, 18 to 24 inch, 100, \$5.00.

AMOOR RIVER PRIVET, 12 to 15 inch, 100, \$6.00.

AMOOR RIVER PRIVET, 15 to 18 inch, 100, \$8.00.

No less than 100 sold at above prices.

GRAPE VINES

12, \$2.50; 100, \$20.00.

Moore's Early, **Concord**, **Lutie**, **Niagara**.

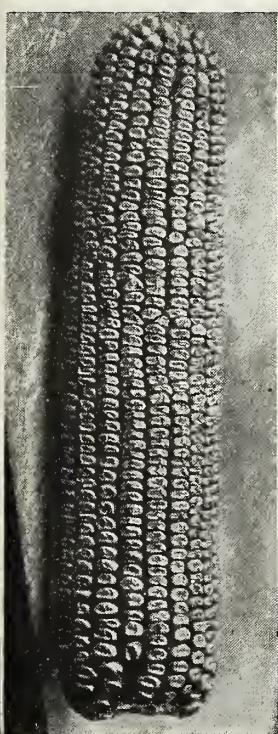
No less than 12 at the above prices.

FIG BUSHES

12, \$4.00; 100, \$30.00.

Brown Turkey and **Celestial**.

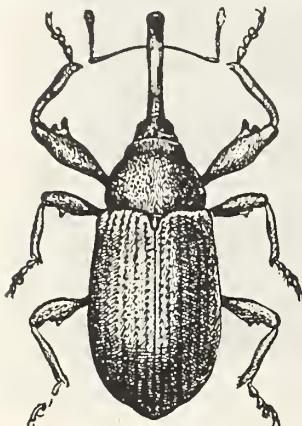
Nothing less than 12 at the above prices.



Iowa Gold Mine

RUSSELL-HECKLE'S IMPROVED COTTON SEED

Prices F. O. B. Memphis, per bushel of 32 pounds, subject to stock on hand. For current prices on large quantities, see Green Ink Price List enclosed. When in market for a carload, telegraph or telephone us for special prices, delivered your station.



Boll Weevil

mean the difference between success and failure to you. It is therefore of VITAL IMPORTANCE to you to select the right variety, for your failure or success one year may determine the success or failure of your entire business career.

Certain varieties have been bred up with the idea of overcoming conditions brought about by the presence of the boll weevil, that dread pest which has brought thousands of farmers to a state of despondency. Other varieties give splendid results where there are no weevils present, but absolutely fail where weevil is present. Certain varieties do splendidly on some soils and give very poor results on other soils.

It is here, therefore, that this firm has been of value to its customers—in selecting for them the type of cotton best suited to their needs and conditions. We are thoroughly informed as to the relative value of the different varieties under different conditions, this knowledge being gained through exhaustive study of the results obtained through experimental work under governmental agencies in the different sections, and under actual field conditions.

"SHALL I PLANT MY OWN COTTON SEED?"

Generally speaking, No! You probably have planted this seed two or more years and ginned on a public gin. No matter how careful you have been your seed are more or less mixed and somewhat "run out." This means you are not getting as much cotton from your acreage as you can get with pure seed nor as good a price for your cotton as you can get for lint from pure seed.

PEDIGREE PURE BRED COTTON SEED PAYS

The breeding of certain types of cotton seed and their development are a business in themselves, entirely separate and distinct from ordinary farming. We have several agricultural experts in the South who have devoted the best part of their lives to this work, and it is to them that we are indebted for the highly bred types of cotton seed that this firm has offered from time to time, and which have brought success to so many of our customers.

Plant only our Pedigreed Cotton Seed. They produce the most cotton on the same acreage.

WHAT ABOUT COTTON FOR 1922?

We believe this year is going to be a most important one for the Southern Cotton Planter. He is facing in all probability another hard year with the weevil. He must be prepared therefore to combat the weevil in every way possible. Experience has taught us cotton seed that has "run out" cannot be made to mature quickly. Seed is necessary that has been "bred up" for earliness, if you want quick maturity. In fact if you want any particular characteristic in cotton, you must have the cotton that has been carefully bred up to produce that characteristic.

WE ARE PREPARED

This year, therefore, feeling that the planter will not want to risk another large acreage but must of necessity have the best results possible from the acreage he does plant. We have had our cotton seed expert scour the country for the best that breeders can produce in each variety of cotton on the market. We realize that no one cotton answers the purpose of every planter. Therefore, we have obtained and are able to offer all of the standard varieties, the purest and most productive types of each variety obtainable.

SELECTION OF VARIETIES

The selection of the variety of seed you intend to plant is not a matter to be treated lightly, for under certain conditions which may prevail in the fall, the choice of variety now may



Open Cotton Boll

HOW TO COMBAT THE BOLL WEEVIL IN 1922

By E. R. LLOYD and C. W. WATSON,
Farm Development Bureau, Chamber of Commerce,
Memphis, Tennessee.

It would be utter folly in this section, to attempt making a satisfactory cotton crop in 1922 without using every effort known in fighting the boll weevil. This is especially true if we have a mild winter, permitting the weevil to hibernate safely and emerge in large quantities early next spring.

FIVE LIMITING FACTORS

In order to produce the maximum yield, with or without the weevil, there are at least five very important things to consider, any of which if not followed, may limit the yield or curtail production. These are:

1. A well prepared seed bed.
2. Judicious use of commercial fertilizer to hasten maturity of the crop.
3. Purest types of Pedigreed or "Bred-up" cotton seed available of early maturing standard varieties of seed, such as:

Miller	Cleveland	Big Boll	Express No. 350
Triumph	Wanamaker-Cleveland	Foster No. 120	
Rowden	Lone Star	Webber No. 49	
Acala No. 5		Hartsville No. 14	

4. Plant on a settled seed bed as early as danger of frost is over.
5. Intensive cultivation, once every ten days and after each rain as far as practical. Cultivate until late in season.

THREE THINGS NECESSARY TO DO IN ORDER TO GET A PROFIT IN 1922

1. Hold your cotton acreage down to the 1921 basis, which was 71.6 per cent of the 1920 crop acreage.
2. Orderly marketing of the crop, by placing only sufficient number of bales on the market each month to supply demand and not enough to depress the price by creating a surplus at any given time.
3. By producing your food and feed. This will take care of the surplus acreage on each farm and balance crops sufficient to take care of the live stock. Grow your food for home consumption and make cotton a money crop instead of a debt paying crop.



7/8-Inch

1-Inch

1 1/8-Inch

1 1/8-Inch Com'l

1 1/8-Inch

1 1/8-Inch full

RUSSELL-HECKLE'S IMPROVED COTTON SEED

EXTRA EARLY MEDIUM BOLL VARIETIES

Wanamaker Cleveland This is probably the best known of all the early maturing short cottons on the market today. It is the result of years of breeding work on the part of W. W. Wannamaker & Sons over in the Carolinas, this firm being one of the foremost cotton seed breeders in the South. They took the old Cleveland Big Boll cotton to begin with, and through "plant to row breeding methods for several years, produced a strain very much earlier in maturity than the parent plant, which is what they desired for they wanted a cotton "to beat the boll weevil." The cotton has not quite so big a boll as the original Cleveland, nor quite so long a staple; however, it classes as a big boll type and staple runs from 1 inch to 1 1/16 in length. It combines the three most desirable characteristics in a cotton for boll-weevil conditions and elsewhere—extreme earliness of maturity, extra large lint-out-turn at gin, and prolific yield in the field. It comes nearer thriving under any and all conditions than any other variety we know of, and is recommended by the different Experiment Stations for both hill and valley lands. Seeds are straight, brownish color, bolls are large, plants uniform, foliage medium, lint percentage 39, staple 1 to 1 1/16 inches. Yields of two bales per acre have been made in many cases with Pedigreed Wannamaker Cleveland.

King's Early Improved It is true this is a very short cotton, but it is not objectionable like Half and Half, and when you remember that it is just about the earliest cotton grown, you can see why it is deservedly popular. Many and many a time King Cotton has pulled farmers "out of the hole" when they had to replant their crop, where they would have failed with a later variety. A very prolific variety, medium size boll, and very prolific yielder; lint out-turn 36 per cent, good.

Simpkin's Prolific Originated in Carolina many years ago, and very similar to King. With King, it shares the honor of being about the earliest cotton grown, and can't be beat for replanting. We get our seed of both King and Simpkins from the heart of the growing sections of these varieties in Carolina. Staple about 1 inch, lint out-turn 36 per cent, very prolific in field.



Wanamaker Cleveland

Trice This is a Tennessee product and in some sections has been planted to the exclusion of all others. It is as early as King's Improved, but has much better length of staple, running about 1 1/8. Medium size boll, light foliage. Percentage of lint, 32%, but very prolific in the field. When you get started late, Trice is especially good to plant.

PRICES

Account catalog going to press before spring market has been established on all field seeds, we are unable to quote quantity prices. For current prices see Special Green Ink Price Sheet enclosed.

November 9, 1921.

Messrs. Russell-Heckle Seed Co.,
Memphis, Tenn.

Dear Sirs:

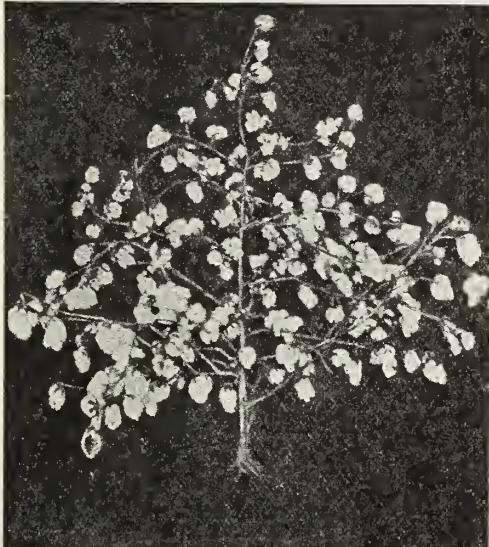
Will you please let me know if you can furnish me with the same cotton seed I bought with you January 26th for next year to be shipped about February 15, 1922. Please quote me your very best price on about 100 bushels or more. I would like to get the same seed, because I think its the best I ever did plant in my life, and all my customers are very glad and satisfied and made a fine crop.

Those who bought your seed with me made just double them who did not buy any. I don't ask for any better seed because I know no one can find better. All my customers are so glad and satisfied they made me book this seed since three weeks ago. Remember that I want the same Wannamaker-Cleveland Cotton Seed.

Awaiting an early reply,

Yours very truly,

PIERRE GUIDROZ, Dupont, La.



King's Early Improved



1 3/8

1 1/4

1 5/8

1 3/8

1 7/8

1 1/2

RUSSELL-HECKLE'S IMPROVED COTTON SEED

EXTRA EARLY BIG BOLL VARIETIES

Acala No. 5 Cotton Seed This cotton has reached a high state of development. It combines the good qualities of several of our best known varieties with none of their faults. Extra earliness is necessary in any cotton where the boll weevil is present. Acala No. 5 is extra early, earlier than Wanamaker-Cleveland. It has a staple usually of $1\frac{1}{8}$ inches or more, equal to the famous Express, but in addition its "out turn" at the gin is 36 to 40 per cent, which is remarkable for that length of staple or for any staple. The boll is almost as large as the Mebane Triumph, absolutely storm proof, yet is easy to pick; foliage light to medium, allowing the sunlight to reach all the branches and mature all bolls.

The United States Department of Agriculture has issued a bulletin on this wonderful variety and among other things they state "it meets a distinct agricultural need in maturing somewhat earlier than Lone Star or other big boll cottons. On this account it promises to be rapidly extended in cultivation in parts of northern Texas, Oklahoma and Arkansas. Its earliness in these sections makes it especially adapted to the bottom lands, where cotton tends to grow rank and be late in maturing, and on the more northern highlands where frost shortens the growing season. It is particularly noted also for a good drag and the extra strength of its fiber."

A cotton buyer in Arkansas reports that Acala No. 5 Cotton brought as high as \$40.00 per bale above ordinary short cotton on his market. Think of it! and then remember that Acala No. 5 makes as much or more cotton in the field and a bigger out-turn at the gin than the ordinary cotton.

The boll weevil has practically covered the South making an extra early cotton a necessity. We will have weevils this year. Play the game safe and plant some of this remarkable cotton.

Mebane Early Triumph Originated in Texas many years ago and planted there more than any other variety today. Many sections of Arkansas, Louisiana and Mississippi prefer it to the other varieties. For several years there has been an increasing demand for a tough-fibre cotton of medium staple; something between the ordinary short varieties and long staples. Mebane Triumph is ideal in this respect; pulls from $1\frac{1}{8}$ to $1\frac{1}{2}$ inches, has a strong, tough fibre, storm-proof and makes a good "bender" cotton bringing good premium in price. Extra large boll, easy to pick, drought resistant, lint out-turn at gin 37 to 39 per cent and one of the earliest of the extra big boll cottons.

Heavy Fruiter Very sensational claims have been made for this variety. Yields of two bales per acre often claimed. We do not put much faith in such claims for we never expect the impossible. However, Heavy Fruiter has really "made good" for numerous farmers and is entitled to the popularity it has gained. The boll is extra large, forty weighing a pound and the stalk is literally covered with bolls from the ground up, hence, its name. Easy to pick, yet storm-proof. Has a splendid root system which makes it drought-resistant. Extremely early for the size of the boll and a staple up to $1\frac{1}{8}$ inches is claimed, but what is more amazing a lint out-turn at gin of 40 per cent to 46 per cent is also claimed by many who have grown it. Such a cotton is bound to be a money maker and much in demand.



* Acala No. 5 Cotton

Miller This is a Mississippi variety originated by A. G. Miller from seed obtained from Texas. Miller has given some remarkable yields in variety tests and under field conditions. Has a very large boll, lint percentage about 36; staple $1\frac{1}{8}$ to $1\frac{1}{2}$, and is very early considering extra large boll.

MEDIUM EARLY EXTRA BIG BOLL VARIETY

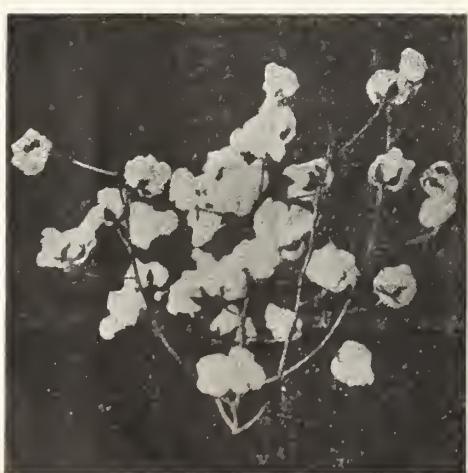
Rowden Big Boll Another Texas product and almost as much planted as Mebane Triumph. It has been most successful when planted on upland sandy soils. A very large boll that is easy to pick, yet resists the effect of storms as well as any variety. It has not quite so big a lint out-turn as the Mebane, but it has a little better staple, pulling a full $1\frac{1}{8}$ inches on strong soil and almost as early as Mebane. There are many large areas in Arkansas where no other variety is grown as Rowden has proven most profitable. It has even reached into Missouri, and quite a big acreage has been planted in South Carolina with excellent results. Rowden has a very strong tough fiber which is much in demand.

Sproul's Big Boll This is a West Tennessee product originating in Shelby County many years ago. There are many farmers who have grown no other variety than Sproul's Big Boll for years. It is a fact that as a hill cotton it is hard to beat year in and year out. Sproul's has an exceptionally large boll about as large as any variety known, making it very easy to pick. It pulls a good $1\frac{1}{8}$ inches, a very desirable length, and a good strong fiber. This is a very rank growing cotton with extra large leaf so should not be planted in rich bottom soils, as it does not mature well under such conditions. We repeat, for uplands it can't be beat. Give it ample space in row.

Lone Star This is a big boll type originated in Texas; was bred by Dr. D. A. Saunders, of the Bureau of Plant Industry. The Department of Agriculture, Circular 151, says:

"In this variety the limbs begin to develop fruiting branches 4 to 7 inches from their base instead of from their extremities. This appears to be an advantage under weevil conditions as in years of heavy infection the bulk of the crop must be obtained from the lower third of the plant. In selection, considerable stress has been laid upon the short jointing character of the main stem as essential in developing an early-fruiting tendency. The habits of growth are similar to those of the well known Triumph cotton, and under the same conditions the two varieties appear almost indistinguishable, but in other places obvious differences appear, and these are in favor of the LONE STAR. The plants are less inclined to become prostrate, the bolls larger, the lint longer, stronger and more abundant. Very large yields have been reported, more than two bales per acre on measured area. Under favorable conditions the fiber attaining $1\frac{1}{8}$ inches in length, lint percentage 38 to 40."

Cleveland Big Boll This is the variety from which the famous Wanamaker-Cleveland was developed. It has bigger bolls than Wanamaker, and pulls longer staple, about $1\frac{1}{8}$ inches full, and for that reason is better liked in some sections. Big boll type, heavy fruiter in the field and big out-turn at the gin, 37 per cent. Another good "bender" cotton, bringing good premium every year over shorter cottons.



Mebane Triumph

RUSSELL-HECKLE'S LONG STAPLE COTTON

In the old days the only varieties of Long Staple cottons were so slow in maturing that it was found they could only be grown successfully in the extreme southern part of the cotton belt. Then, when the Boll Weevil invaded Louisiana and Mississippi, it was felt that the growth of Long Staple was doomed.

However, the Long Staple cotton industry had become of so much importance and the demand for cotton of this type was so strong that the United States Government and other agencies set about to breed and develop certain strains for earliness of maturity; in other words, to shorten the growing period of the cotton to such an extent that the plant would be matured before the boll weevil could do much damage each year.

This great work has accomplished wonderful results, and while of course the boll weevil does more or less damage still in various sections, yet Long Staple cottons (that is, the carefully bred, early maturing varieties) are successfully grown as far north as Tennessee and Arkansas.

Do not attempt to plant staple cotton on poor soil; you will not get results that will pay you, and you would do better to stick to short cotton on such soil.

EARLY MATURING MEDIUM STAPLES

Express Staple $1\frac{1}{2}$ to $1\frac{1}{4}$, and yet the maturity of the pure type Express is as early as the very short cottons. Further, the yield of seed cotton equals most any of the short varieties. It is true that the out-turn at the gin is smaller, but the big yield in the field, combined with the big premium in price for lint over short cottons, makes Express pay big money to the farmer. We do not recommend it for hill soils, but on the rich, bottom lands of the delta particularly, Express has won a place second to none in popularity. The lint brought as high as 75 cents per pound when short cotton was selling for about 45 cents.

Polk's Improved Like Express, this cotton produces best on rich bottom soils. Some buyers will pay even more for its lint than for Express, and it brought as high as 83 cents per pound two years ago. The yield in the field is very heavy, the boll is a little larger than the Express and the out-turn at gin is possibly a little better. When you consider the fact that it yields acre for acre almost as well as the short cottons and yet brings such a big premium in price over short cottons you can understand its popularity in the bottom land sections.

Foster $1\frac{1}{2}$ staple, extra tough, strong fibre. Two years ago No. 120 brought as high as 90 cents per pound, just double the price of short cotton at same time. We have heard of yields of about a bale per acre, but of course it takes exceptionally fine soil and favorable conditions all around to produce such results. It is very prolific, however, has a fair out-turn at gin, and is an early maturing staple variety.

EARLY MATURING LONG STAPLES

Webber Unquestionably this has proven to be the best of the early maturing long staples yet produced, and some No. 49 of the large Delta planters have become rich through growing this variety. It has a staple pull of $1\frac{1}{4}$ to $1\frac{1}{2}$ inches, a yield in the field equal to short cottons and a lint out-turn at the gin of about 33 per cent, which equals most short cottons. It has a large boll that is easy to pick, yet its storm proof qualities are excellent. When we tell you the lint from this variety brought year before last over a dollar a pound in some cases, and when you remember the yields mentioned above, you can understand why this variety is so popular. Remember, it has taken nineteen years of cumulative breeding work on the part of the scientists engaged in this work, now operating under the name of the Pedigreed Seed Company, to bring this and other types up to their present state of perfection. A farmer can well afford to pay a big price for some of this wonderful seed every year for it will produce so much more than the seed he himself grows, as it only takes three or four years for any seed to "run out" unless improved by breeding work each year.

Webber This is another of the strains No. 82 developed by the Pedigreed Seed Company, the famous long staple breeders in Carolina. It is similar to the Webber No. 49, except that it is a little longer staple, and just a little later maturity. It has brought even better price than Strain No. 49, and equally big yields. For boll weevil territory, however, the Strain No. 49 is preferable because it is earlier, and every day counts where the weevil is present in large numbers.

Hartsville This cotton pulls $1\frac{1}{2}$ inches, which is extra long, yet the No. 14 lint out-turn is 33 per cent at the gin, equal to short cottons, and 55 to 60 bolls weigh a pound. It is the largest boll of any of the long staple cottons, and more rounded in shape. It is not recommended for territory where boll weevil is present in large numbers, for it is not so early as other long cottons, but where no weevil is present, its excellent characteristics mentioned above, make it very desirable from a money making standpoint, for the lint always brings a big price.



Webber 49 Lint

MISSISSIPPI SILK

Extra long staple. This variety has been developed in our own territory and some of our biggest planters stand by it from year to year. It pulls $1\frac{1}{2}$ inches in staple, a good strong tough fiber that brings the very top price on the market. The boll is medium size and the cotton is not hard to pick like the old-fashioned long cotton. The out-turn at the gin is excellent for this length of cotton, and the yield in the field is surprising. On strong bottom lands where the weevil is present, it is one of the best.

PRICES

On account of catalog going to press before market has been established on all field seeds, we are unable to quote quantity prices on this page. For current prices see Special Green Ink Price Sheet enclosed.

OTHER VARIETIES

We have listed and described the most popular standard varieties only in our catalog. There are, of course, many other varieties on the market, some with different characteristics, some with merely different names. If you don't see the varieties you want listed, write us its name and we can get it for you always.

NOTICE, CARLOAD BUYERS

Whenever you are in the market for a carload of any variety, telephone or telegraph us for prices delivered to your city. We are the largest carload shippers of pedigree planting cottonseed anywhere in our territory.

THE 1920 EXPERIMENT, DELTA STATION, MISSISSIPPI

Variety	Lbs. of Lint per Acre		Value of Seed & Lint		Data on Lint	
	First Pick'g	Total Yield	Dollars per Acre	Rank	Length in Inches	Value Cents per lb.
Simpkins Ideal	283.7	497.5	51.36	14	90.07	21 $\frac{3}{4}$ 15.25 34.1
Trice, 270-41	297.7	550.8	60.59	10	112.11	9 $\frac{1}{2}$ 17.00 30.6
Wanamaker Cleveland	367.7	500.5	68.52	4	111.78	10 $\frac{7}{8}$ 16.00 35.9
Cleveland, 37W-54	344.4	556.3	62.37	8	100.72	14 $\frac{3}{4}$ 15.25 34.1
Cleveland Big Boll	230.2	505.2	44.35	20	96.39	17 1 16.25 34.3
Cook, 1910	338.0	605.0	63.78	6	113.05	8 1 16.25 37.7
Mexican Big Boll	245.9	491.7	47.47	16	94.83	18 1 16.25 32.8
Lone Star, 132-48	259.5	555.1	57.61	13	123.23	4 $\frac{1}{2}$ 19.00 31.6
Miller	247.8	553.6	64.51	5	121.81	5 $\frac{1}{2}$ 19.00 33.0
Triumph	208.9	535.2	40.56	21	103.92	12 $\frac{1}{2}$ 17.00 37.9
Acala, 5	262.1	605.8	50.72	15	117.77	7 $\frac{1}{2}$ 17.00 37.7
Express, 432	315.7	468.1	63.06	7	93.50	20 $\frac{1}{2}$ 17.00 33.2
Express, 350	270.6	377.6	61.11	9	85.28	22 $\frac{1}{2}$ 19.00 29.2
Express, 122-433	262.6	434.1	59.12	12	97.75	15 $\frac{1}{2}$ 19.00 29.6
Foster, 120-6102	378.2	609.8	83.57	2	134.75	2 $\frac{1}{2}$ 19.00 32.3
Foster, 120-631	339.1	607.8	85.34	1	158.87	1 $\frac{1}{2}$ 23.00 32.0
Webber, 49-3	237.7	420.9	71.79	3	127.11	3 $\frac{1}{2}$ 27.00 31.6
Delta-Type Webber	183.9	390.7	59.38	11	118.35	6 $\frac{1}{2}$ 27.00 31.0
Hartsville, 12	104.5	319.3	34.63	22	96.62	16 $\frac{1}{2}$ 27.00 31.2
Hartsville, 14	75.3	244.7	19.68	23	63.96	23 $\frac{1}{2}$ 23.00 32.0
Columbia	179.4	402.9	47.39	17	106.43	11 $\frac{1}{2}$ 23.00 30.2
Allen Long Staple	147.8	334.4	45.23	19	102.39	13 $\frac{1}{2}$ 27.00 29.1
Haaga Long Staple	171.3	349.2	46.43	18	94.65	19 $\frac{1}{2}$ 23.00 26.5

NURSERY DEPARTMENT

Orders for trees will be filled as soon as weather permits. It usually requires eight to ten days to get the stock from our nursery. Remember, we will give your order attention at the earliest possible moment.

Set out small trees. They are more certain to grow and will bear fruit just as early as any large or older tree. It is a mistake to reset any tree older than two years.

Our trees are first-class, superior to any stock that has been raised in this section. We represent one of the largest and most reliable nurseries in the South.

Terms are strictly cash, F. O. B. Memphis. No trees shipped C. O. D.

Certificate of Inspection

Issued annually by the Tennessee state entomologist showing freedom of our stock from San Jose Scale and other injurious insects and disease, will be attached to every shipment.

PEACHES

Plant 18 to 25 feet apart each way.

First grade, 3½ feet and up: Each 70c; 10, \$6.00; 100, \$50.00.

Mayflower The earliest and one of the very best early peaches. Fruit round, entirely covered with red; blooms late; very hardy. Last of May; freestone.

Sneed, or Peeble's Creamy white; half cling; it ripens in June.

Carman Large, resembling Elberta; skin tough, creamy white, with deep blush; flesh creamy white, tinged with red; freestone; middle of June.

Early Elberta Freestone, midseason, yellow of the Elberta type, but earlier somewhat, finer grained, better in quality and sweeter; a very highly colored peach. Tree hardy and vigorous and succeeds everywhere.

Belle of Georgia Very large, has white skin, attractive red cheek; flesh white, firm; freestone. It is one of the best market varieties of its season. Ripens about the tenth of July. Freestone.

J. H. Hale Probably no new peach has ever been introduced claiming to be so much superior in all ways. It averages one-third to one-half larger than Elberta, ripens about five days earlier and is much superior in flavor. Color a beautiful golden yellow with deep carmine blush; one of the best freestones. Ripens in July.

Elberta Known wherever peaches are eaten. Of Georgia origin, remarkable for its size; firm, yellow flesh and tough skin, making it one of the best shipping peaches; yellow, slightly overspread with red; fine red cheek; freestone. Middle of July.

Chinese Cling Very large; yellowish white, mottled with carmine; flesh white, red at tip; a very juicy peach; clingstone; end of July.

Blood Cling, or Indian Blood Large; dark claret with deep red veins; flesh deep red; middle to last of August.

Ringgold Cling

A very large, beautiful peach; yellow flesh; rich yellow skin with dark carmine cheek; larger than Heath Cling. Always finds good market; ripens about Sept. 15th.

Admiral Dewey

Ripens in June; a perfect freestone; flesh yellow; skin golden yellow, with lovely red on cheek.

Champion Free-stone; ripens July 20th; large creamy white with red cheek.

Crawford Early

Large; yellow with red cheek; ripens July 10.

Heath Cling

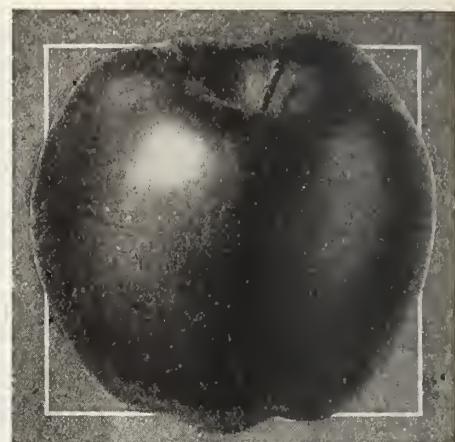
Late Sept. 15; white tinged red, very juicy, rich and luscious.

Red Bird

Very early, ripens in May; is large, round, creamy white, nearly covered with red, semi-cling; flesh white.

Greensboro

Ripens in June; freestone; largest of all early peaches; skin is colored and dark red, shaded with yellow.



Stayman Winesap Apple

Stump of the World One of the finest midsummer varieties, ripens in August, flesh white, large blush red on creamy ground.

Globe Flesh yellow; firm yellow meat; globe shape form and of good quality; freestone ripens in September.

Arp Beauty The earliest yellow free stone peach; very juicy; ripens June 10th.

Emma Of the Elberta type, golden yellow with rich blush cheek; freestone; ripens five days ahead of the Elberta, said to be of a better quality than standard Elberta.

JUNE BUD PEACH TREES

We are able to offer a nice lot of June Bud Peach Trees: Just the right size trees if you want to put out a nice orchard. Set them out in February and March and they will grow off quickly and make fine trees if properly pruned. Can furnish the following varieties, all true to name:

Elberta, Belle of Georgia, Early Belle, Red Bird, J. H. Hale, Carman, Mayflower, Early Rose.

Prices: 12 to 18 inches, 50, \$7.50; 100, \$12.50.

Prices: 24 to 36 inches, 50, \$12.50; 100, \$15.00.

No order filled for less than 50 trees; packed, F. O. B., growing station.

SPECIAL NOTICE

If out of the variety ordered, do we have your permission to substitute equal or better in the nearest we can supply? Advise us.

APPLES

Plant 25 to 35 feet apart each way, according to soil. First Grade, 4 feet and up: Each: 70c; 10, \$6.00; 100, \$50.00.

Early Harvest Yellow, medium to large size, fine flavor. A sure and abundant bearer. The most profitable early apple in this section. Ripens 10 days later than Red Astrachan.

Horse (Yellow Horse). Large greenish yellow; acid; a good bearer; widely known throughout the South. July-August.

Summer Queen Medium to large, yellow streaked with red; flesh tender, with an aromatic flavor; ripens last of July.

Red June Well known throughout the South; medium size, oblong; deep red; middle of June to end of July.

Winesap One of the most dependable late apples for the general South. Small to medium size, fine, dark red; flesh crisp; an excellent keeper.

Delicious A very popular apple in the West and Northwest; very large, oblong; color rich crimson shaded to yellow; fine grain, juicy; a fine keeper and shipper. Not yet thoroughly tried out in the South.

Yates A small apple, but one of the surest croppers, heaviest bearers and best keepers; dark red with white dots; flesh yellow, crisp and good.

Stayman Winesap A seedling of Winesap, but a stronger grower and better adapted to thin soils; much like Winesap in size and appearance, but of better quality.

Mammoth Blacktwig From Lincoln County, Tennessee; very large; dark red; yellow flesh; good keeper and always a good seller; productive.



J. H. Hale Peach

APPLES—Continued

Red Astrachan Ripens in June; yellow covered with crimson.

Yellow Transparent Ripens in July; pale yellow skin. Succeeds in all sections; fruit medium size; conical in shape.

Summer Queen Yellow skin, streaked with red; medium to large; ripens in July.

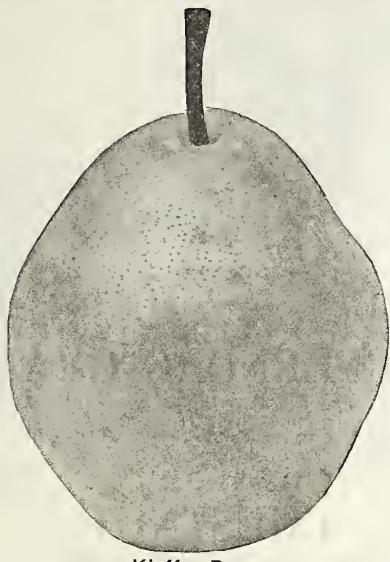
Fort's Prize Late; ripens in July; deep crimson; medium size; skin deep crimson with pure white dots; flesh crisp and tender.

Hyslop Crab Apple Golden yellow with rich crimson cheek, nearly all crimson when mature; crisp, yellow flesh; makes the best Crab Apple jelly ever. Late August or September.

PEARS

Plant 20 to 25 feet apart.

First Grade, 4 feet and up: Each, 85c; 10, \$7.50; 100, \$70.00.



Kieffer Pear

Early Harvest Small or medium size; yellow with dark red cheek; flesh melting, sweet, good quality. Early June. Tree a strong, shapely grower.

Le Conte Good size, bell-shaped; not of high quality, but if picked rather green and matured in a dark cool room, its quality will be greatly improved. Tree a vigorous grower; bears young.

Seckel This little pear is the standard for flavor. Yellowish russet with red cheek; very juicy and melting. Tree is of slow growth and never attains great size. August.

Kieffer Large to very large; yellow, with vermillion cheek; brittle flesh; quality usually poor; greatly improved if ripened in dark, cool room. Matures in September, lasts well into October. Prolific; begins bearing early—the third or fourth year.

Garber Larger than Kieffer, a beautiful yellow; ripens in September.

Bartlett Large yellow, finest quality; ripens in September.

Howell's Ripens in July; pale yellow with red cheek.

Japan Golden Russet Prolific bearer, never fails; fruit golden russet yellow.

CHERRIES

Plant 18 to 25 feet apart.

First Grade, 4 feet and up: Each, 85c; 10, \$7.50; 100, \$70.00.

Governor Wood Good size; clear, light red; tender and juicy. A customer on Mission Ridge, near Chattanooga, reports this variety as successful there.

Large Montmorency The best cherry for general planting. Very productive; large size; rich red; follows Early Richmond. Tree a strong grower and a sure bearer in this section.

Early Richmond Medium in size; light red; acid; profitable here; ripens last of May.

Black Tartarian Large, purplish black, a pleasant flavor.

PLUMS

Plant 15 to 25 feet apart.

First Grade, 4 feet and up: Each, 85c; 10, \$7.50; 100, \$70.00.

Red June, or Red Nagate

Of medium size, pointed; thick skin of purplish red color; flesh yellow, solid, rather coarse grained, juicy; very prolific. Matures about the middle of June.

Burbank

Similar in all characteristics to Abundance, except that it is more globular. Of cherry red color, mottled with yellow.

Wickson

A plum of large size and distinct, pointed shape. Of high quality—purple when matured. Because it blooms so early it is often killed by late frosts in this section. It ripens the last of July.

Abundance

Large size, matures early; of bright red color; sweet and juicy.

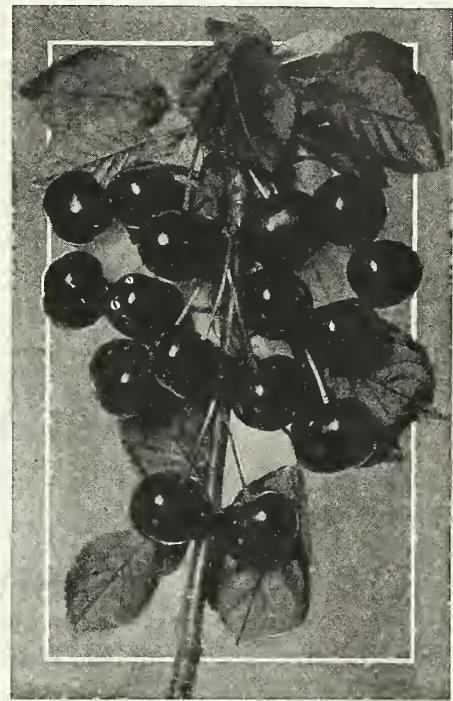
Shropshire Damson European type. Of larger size than the old Blue Damson. Park purple; good quality. In great demand for preserving. August.

Stark's Gold

One of the most showy plums; bright yellow, tinted red; flesh dark yellow, very sweet; ripens June 25.

Wild Goose

Very large; bright red skin; yellow flesh; tree a vigorous grower.



Early Richmond Cherry

MULBERRIES

Plant 25 feet apart each way. First Grade, 5 feet high: Each, \$1.00; 10, \$8.00.

A very valuable fruit for poultry and hogs. The fruiting period is of long duration, lasting two to three months. Should be planted in very hot pasture and chicken yard. Trees come into bearing very young.

Black English Tree a very strong grower; foliage fine; berry large, black, ripens ahead of Hicks; hardy and prolific.

Hick's Everbearing Follows Black English and continues in bearing for weeks; berry is black, produces abundantly, but not as large as Black English.

SPECIAL NOTICE

If out of the variety ordered, do we have your permission to substitute equal or better in the nearest we can substitute? Advise us.

1920 CALENDARS

On receipt of five names of people in your community, who would be interested in receiving our Annual Seed Catalog, we will mail you one of our 1922 Calendars, which is very complete in every detail.

FIGS

Plant 12 to 18 feet apart.

First Grade: Each, 75c; 10, \$6.50.

Brown Turkey Large, with broad base, reddish-purple skin; flesh pink; very fine.

Celestial Pale violet; large size fruit; very hardy.

Brunswick Very large; purple; sweet, and prolific.

Never Fail Handsome large fig of fine quality; sure cropper.

Lemon Medium to large; yellow; sweet, white flesh.

APRICOTS

First Grade, 3½ feet: Each, \$1.00; 10, \$8.50.

Early Golden Very early, productive and of good size.

Moor Park Fruit golden yellow, large and of fine quality.

Royal Large, yellow with orange cheek; rich and delicious.

Superb One of the Japan type of apricot; very hardy; early, and ripens in May.

QUINCES

Plant 12 feet apart each way.

First Grade Trees, 3½ feet: Each, \$1.00; 10, \$8.50.

Champion Fruit averages larger than Orange and more oval in shape. A late keeper.

Orange Fruit of good size, bright yellow, excellent flavor. An old standard sort.

Missouri Mammoth The largest quince in cultivation; an early bearer, free from blight; a splendid market variety.

NECTARINES

First Grade, well-rooted vines: Each, 35c; 10, \$3.00; 100, \$25.

Early Violet One of the best varieties for this season.

JAPANESE PERSIMMONS

Three-foot Trees: Each, \$1.00; 10 for \$8.50.

Tane-Nashi Skin bright red; deep yellow flesh.

O'Kame Orange-yellow skin; large size.

GRAPE VINES

Plant 8 to 10 feet apart.

First Grade, well-rooted vines: Each, 35c; 10, \$3; 100, \$25.

Concord Bunch and berry large blue-black; flesh is sweet, tender; quality high. One of the best known and most popular sorts.

Lutie A native of Davi-son County, Tennessee. Vine a distinct grower; berry large, dark red; peculiar and most agreeable flavor. Productive and desirable.

Niagara The best white grape. A good shipper, having a tough, rather thin skin. Bunch medium to large; berry large. Pale yellow with whitish bloom when fully ripe.

Campbell's Early Fruit glossy black, pulp sweet and juicy; large in bunch and berry; good bearer. One of the best keeping varieties.



Brown Turkey Fig



Concord Grapes

Moore's Early The earliest variety. Color black; large berry with medium size bunch.

SCUPPERNONG GRAPES

A distinct type of native Southern grape. The vine is a very strong grower, remarkably free from disease and insects, maturing its fruit fully without decay. The fruit is produced in small clusters.

First Grade, 2-year vines: Each, 75c; 10, \$6.00.

CHESTNUT

3½ feet: Each, \$1.00; 10, \$8.50.

Japan Mammoth Produces mammoth size nuts; tree a vigorous grower.

Spanish Tree a rapid grower; produces nuts early.

WALNUTS

2½ feet: Each, \$1.00; 10, \$8.50.

English Makes a handsome shade or lawn tree; a table nut of fine quality.

Japan A vigorous tree and a sure and prolific bearer. Also makes a fine ornamental tree with a broad, spreading top.

GRAFTED PECANS

Plant 35 to 50 feet apart.

Two to 3-foot Trees: Each, \$1.25; 10, \$10.00.

Three to 4-foot Trees: Each, \$1.50; 10, \$12.00.

Stuart The hardest of this list. Large size; shell medium thin; quality good; one of the best varieties.

Schley A distinctly pointed nut of good size; thin shell, well filled; fine flavor.

Money Maker A large, long, dark nut; tree a vigorous grower with large, healthy foliage; one of the best of the improved sorts.

Success A fine large sort, with very thin shell; originated in Louisiana, quality the very best.

Pabst A superb variety from Mississippi; long in shape, and the nuts run 36 to 42 to the pound; very thin shell, and the meats are plump and separate easily.

Van Deeman Said to be the most productive of the grafted pecans. Tree vigorous and bears early. Nuts large size, oval in shape.

STRAWBERRY PLANTS

Set in March and April in rows 3½ feet wide and 15 inches apart in the row. We can furnish any of the following varieties but they will be shipped separate from any other trees or plants on our list. Plants ready in March.

Any of the following varieties: 25, 35c; 50, 60c; 100, 80c; 500, \$2.50; 1,000, \$4.50; 5,000, \$20.00. By parcel post: 25, 40c; 50, 65c; 100, \$1.00; 500, \$2.85; 1,000, \$5.00.

Aroma Large size; dark red; one of the best of the late sorts.

Excelsior Extra early; high color; a vigorous grower and one of the best drought resisters.

Brandywine A large, highly productive variety. Succeeds everywhere.

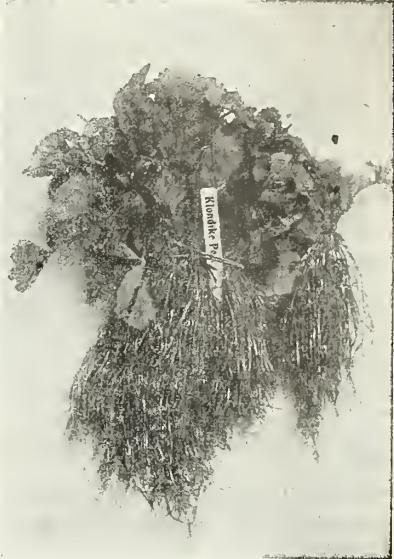
Lady Thompson Widely planted over the whole country because of its uniform productiveness.

Klondyke A shapely dark red berry of uniform size and one of the best shippers; makes a strong, vigorous growth; a very profitable sort.

Lady Corneille A new Strawberry from Louisiana, it ripens with Klondyke, but continues in bearing longer; berries large, rich, glossy red, slightly long, uniform in size and shape; rich, juicy, sweet and delicious.

Gandy The last to ripen; a large, firm, bright crimson berry of good quality. Requires a good, rich soil to bring out its maximum efficiency.

Progressive Everbearing This is the best of the everbearing sorts; berry is dark red, good shape and quality. Price: 25, 60c; 50c, \$1.00; 100, \$1.50; 500, \$6.00; 1,000, \$10.00; f. o. b. Memphis. By parcel post: 25, 70c; 50, \$1.10; 100, \$1.75; 500, \$6.35.



Klondyke Plants

RASPBERRY PLANTS

10, \$1.00; 100, \$7.50; f. o. b. Memphis. By parcel post: 10, \$1.35; 100, \$8.00.

Cuthbert Red, of excellent quality; ripens end of May.

Gregg The best black cap, large size, good quality.

St. Regis Everbearing

Fruit bright red, produces crop in the spring, also in the fall; will bear the first season. Almost a sure cropper every season. Do not fail to plant them. By parcel post: Each, 30c; 10, \$2.00. By express: Each, 20c; 10, \$1.50.



Progressive Everbearing

BLACKBERRY PLANTS

10, \$1.00; 100, \$7.50; f. o. b. Memphis. By parcel post: 10, \$1.35; 100, \$8.00.

Early Harvest Medium size, firm, productive.

Snyder Very hardy; a sure bearer, good size.

DEWBERRIES

10, \$1.00; 100, \$7.50; f. o. b. Memphis. By parcel post: 10, \$1.35; 100, \$8.00.

Austin's Improved Large fruit, the best variety for the South.

GOOSEBERRIES

These succeed best in a cool sheltered moist place; mulch them well the first season. Price: Each, 35c; 10, \$3.00. By parcel post: Each, 40c.

Downing Fruit larger than Houghton; a vigorous growing plant; flesh soft, juicy; very productive.

CURRANTS

Plant in a damp, partly shaded, place as they do not stand our hot, dry summers. Price: Each, 35c; 10, \$3.00. By parcel post: Each, 40c.

Fay's Prolific Red; enormously productive and always reliable. Berry large, sweet and juicy.



St. Regis Everbearing

HORSE RADISH

Plant in rows 18 inches apart, putting the sets 1 foot apart. Doz., 40c; 100, \$2.50; parcel post paid. Not prepaid: Doz., 30c; 100, \$2.00.

ASPARAGUS ROOTS

Set roots or plants either in spring or fall; directions for making beds supplied with orders.

Palmetto Two-year old roots. Price, not prepaid: 50, \$1.00; 100, \$1.75; 1,000, \$15.00. By parcel post: 50c, \$1.20; 100, \$2.10. Three-year, extra heavy, large crowns: Price, not prepaid: 12, 50c; 50, \$1.75; 100, \$2.75; By-parcel post: 12, 60c; 50, \$2.15; 100, \$3.20.

RHUBARB or PIE PLANT

A fine, healthful fruit, but not at home in hot, dry soils. Requires a rich, deep, warm soil. Set out 4 feet apart each way. Strong two-year-old roots. Price, 2-year roots: Each, 25c; Doz., \$2.00; parcel post paid. 1-year roots: Each, 15c; Doz., \$1.25; parcel post paid. Not prepaid, by express: 2-year roots: Each, 15c; Doz., \$1.50; 1-year roots: Each, 10c; Doz., \$1.00.

HEDGE PLANTS

Amoor River Privet The best of the Privets for planting in the South. This type retains its bright green foliage almost all winter here. Strong 2-year plants. 10, \$1.50; 25, \$3.00; 100, \$10.00.

California Privet Very popular; planted all through the South, but in our opinion not as desirable as the Amoor River, because after a few years it loses its foliage early in winter. Strong, 2-year plants: 10, \$1.25; 25, \$2.50; 100, \$7.50.

PEONY BULBS

The improved peonies are perhaps the most popular of all hardy perennial plants. We offer the most desirable varieties. Price uniform: Each, 35c; doz., \$4.00; parcel post paid.

Mrs. Lowe White, free bloomer, mid-season.

Monsieur Paillet Violet rose; good bloomer.

Ceres A brilliant orange scarlet.

Duc DeCases Very dark pink; large size.

ORNAMENTAL DECIDUOUS SHRUBS

All Good, Strong, Well-Branched Stock

ALTHEA (Rose of Sharon)—Flowers all summer. Colors: Double Red, Double Purple, Double White, Single Red, Single White, Single Blue. Any color: Each, 50c; 10, \$4.50.

THUNBERGII (Japanese Barberry)—One of the best shrubs for massing or borders; leaves small, bright green; bright red berries on plant. Each, 45c; 10, \$4.00.

CALYCANTHUS—Popular shrub, blooms early; fragrant. Each, 50c; 10, \$4.50.

CRAPE MYRTLE, PINK—Hardy Southern shrub; flowers all summer. Each, 75c; 10, \$6.50.

DEUTZIA, *Pride of Washington*—Large, double white flowers tinted with rose; blooms profusely. Each: 50c; 10, \$4.50.

FORSYTHIA, Golden Bell—Earliest to bloom of all shrubs. Each, 50c; 10, \$4.00.

HYDRANGEA, Grandiflora—Strong growing shrub; white flowers; pyramidal. Each, 75c; 10, \$6.50.

LILAC—Old-fashioned purple Lilac; fragrant; violet-purple. Each, 75c; 10, \$6.50.

SNOWBALL—Popular shrub; easily grown any place. Each, 50c; 10, \$4.50.

SPIREA—We can supply all well known varieties. Each, 75c; 10, \$6.50.

WEIGELA ROSEA—Hardy, free-flowering shrub, of spreading habit; among the showiest of all shrubs; flowers deep red. Each, 75c; 10, \$6.50.

SYRINGA PHILADELPHUS, or Mock Orange—Attains a height of 7 to 10 feet; blooms pure white; flower resembles the Mock Orange blossom. Each, 50c; 10, \$4.50.

EVERGREENS

All of the evergreens we offer are lifted separately with a ball of earth and the roots with ball carefully wrapped so they will be sure to grow.

This is the only safe way to handle coniferous evergreens. The weight of the balled plants is considerable, from 30 to 100 pounds each, owing to class and size. Shipments of balled evergreens therefore should go by freight if possible, as often the express charges will amount to as much as the invoice. We can ship by freight with perfect safety even though a month or more in transit.

ABIES EXCELSA NORWAY SPRUCE—One of the best spruce pines, makes a graceful showy tree; always evergreen; pyramidal in shape. Price: Trees, 18 to 24 inches in height, \$1.25 each.

ARBORVITAE, CHINESE—*Biota orientalis*. Pyramidal in form and compact in habit; strong grower; foliage deep green in summer, changing to light bronze in winter. 2 to 3 feet, each \$1.75.



Evergreens

ARBORVITAE ROSEDALE HYBRID—By far the finest of all evergreen of this class. A true hybrid between the Golden Arborvitae (*Biota aurea*) and (*Retinospira squarrosa*) bearing a striking resemblance to both. It is a vigorous grower and perfectly hardy; somewhat dwarfish. $\frac{1}{2}$ to 2 feet trees, each, \$2.25.

BLUE VIRGINIA CEDAR—*Juniperus virginiana glauca*. Silvery blue foliage of rapid growth; pyramidal form; distinctive and very desirable. Grows to a height of 20 to 30 feet. 2 to 3 foot trees, each, \$3.25.

IRISH JUNIPER—*Juniperus hibernica*. Of erect, dense, pillar-like growth. Largely used in formal plantings. 2-foot trees, each, \$1.50.

3-foot trees, each, \$2.00.

JUNIPERUS STRICTA—Foliage grayish green; makes a dense pyramidal specimen. $\frac{1}{2}$ -foot trees, each, \$2.00.

RETINOSPORA PLUMOSA AUREA—Golden-plumed Cypress. One of the hardiest and most desirable of the Retinosporas; retains its golden foliage continuously. $\frac{1}{2}$ to 2 foot trees, each, \$2.25.

FIELD GROWN CLIMBING ROSES

Any variety: Each, 75c; 10, \$6.00; by express only.

MRS. ROBT. PEARY—Also called Climbing Kaiserin Augusta Victoria. A superb white, hardy, everblooming rose. The bud and flower are truly beautiful. Mrs. Robt. Peary is in a class of its own. Don't fail to plant this variety.

W. ALLEN RICHARDSON—The coloring in this rose is exquisite, the base and back of the petals bright yellow, the center highly colored with glowing copper and rose. A fine climber.

DOROTHY PERKINS—A free blooming pink climber; very double with petals artistically crinkled; a vigorous, strong grower.

REME MARIE HENRIETTA—A superb, everblooming climber; plant hardy with large bright green leaves; flowers large, broad, cherry red.

CLIMBING SOUVE DE WOOTEN—A rich, deep shade of pink; flowers large full and regular with a delicious fragrance. No climbing rose is prettier than the Souve de Wooten.

CLIMBING AMERICAN BEAUTY—Similar to the American Beauty with large flowers, vivid, rosy crimson on separate stems; hardy and sturdy vine; succeeds in all sections.



Meteor

FIELD GROWN BEDDING ROSES

Any variety: Each, 75c; 10, \$6.00. By express only.
Andre Schwartz A beautiful crimson; free-flowering variety.
American Beauty Large, deep, rich rose; exceedingly fragrant; one of the best of the ever-blooming hybrid perpetual roses.
Etoile De Lyon A rich golden yellow, vigorous, strong grower, producing buds and flowers all throughout the season; a favorite tea rose.

Kaiserin Augusta Victoria Creamy white; long pointed bud, producing a large full flower; a constant bloomer.

Madam Jos. Schwartz A hardy tea rose; particularly well adapted for outdoor planting; color a beautiful flush pink.

Meteor Velvety crimson; perfect shape flowers on long stems; a hardy, free-flowering rose.

Maman Cochet One of the best pink tea roses with rich, healthy green foliage; producing a large fine bloom.

Queen Scarlet Hardy, everblooming crimson scarlet roses; a valuable addition to any collection; gives a mass of bright crimson flowers all the season.

Sunset Fine golden amber, tinged and shaded ruddy copper; a profuse bloomer.

The Rainbow Most unique manner; makes beautiful buds and extra large flowers.

Triumph de Pernet Pere Bright red, shaded, elegant buds, full and double; a continuous bloomer.

White Maman Cochet A beautiful snow white rose; sometimes tinged with the faintest shade of blush; an extraordinary good bloomer.

SHADE TREES

We list only the varieties best suited to our section.

BOX ELDER—6 to 8 ft. trees, each, \$2.00.
AMERICAN ELM—7 to 8 ft. trees, each, \$1.25.
NORWAY MAPLE—6 to 8 ft. trees, each, \$1.50.
SUGAR MAPLE—6 to 8 ft. trees, each, \$1.50.
SILVER MAPLE—6 to 8 ft. trees, each, \$1.25.
CAROLINA POPLAR—7 to 8 ft. trees, each, \$1.25.
LOMBARDY POPLAR—7 to 8 ft. trees, each, \$1.25.
TEXAS UMBRELLA CHINA—4 to 5 ft. trees, each, \$1.50.

VINES

All hardy, field-grown plants with good root system. Climbing, clinging, creeping and trailing.
Ampelopsis (Veitchii, or Boston Ivy)—Of rapid growth; clings with tenacity. Each, 50c.
Honeysuckle (Hall's Japan)—The fragrant white and yellow Honeysuckle; quick growth. Each, 50c.
Honeysuckle (Japan Gold-Leaved) (Lonicera aurea retinaculata). A handsome variety, having foliage beautifully netted or variegated with yellow. Each, 50c.



Kudzu Vine Makes growth 40 to 50 feet in one season. It is also a valuable forage plant. Each, 50c.
Wistaria (Chinese White)—Adapted for porch arbors; flowers in clusters. Each, 60c.
Wistaria (Chinese Purple)—The flowers are produced in dense drooping clusters; very showy. Each, 60c.
Clematis (Paniculata)—Plant from Japan; flowers profusely; white, star-shaped, single; hardy and very desirable. Strong 2-year plants, 75c.
Clematis (Jackmannii)—Deep velvety purple; large; free in growth and bloom; one of the most popular Each, 75c.

SURPLUS NURSERY STOCK

One of our growers has a quantity of the following trees and plants which we offer at very low prices:

LOMBARDY POPLARS—5-6 ft. high; 12, \$3.00; 100, \$20.00.
CAROLINA POPLARS—5-6 ft. high; 12, \$3.50; 100, \$25.00.
WEEPING WILLOW—3-5 ft. high; 12, \$3.50; 100, \$25.00.

No less than 12 sold at these low prices.

SHRUBS

One year; 12, \$2.50; 100, \$20.00.

Following varieties—Althea, Deutzia, Calycanthus, Crape Myrtle, Forsythia, Weigela, Snowberry, Barberry, Jap Quince, Tamarix, Hypericum, Honeysuckle, Lilac, Spirea Van Houtte, Spirea Rosa, Spirea Alba, Spirea Bridal Wreath.

Nothing under 12 shrubs at the above prices.

HEDGE PLANTS

CALIFORNIA PRIVET—12 to 18 in.; 100, \$3.00.

CALIFORNIA PRIVET—18 to 24 in.; 100, \$5.00.

AMOOR RIVER PRIVET—12 to 15 in.; 100, \$6.00.

AMOOR RIVER PRIVET—15 to 18 in.; 100, \$8.00.

No less than 100 sold at above prices.

GRAPE VINES—12, \$2.50; 100, \$20.00.

Moore's Early, Concord, Lutie, Niagara.

No less than 12 at the above prices.

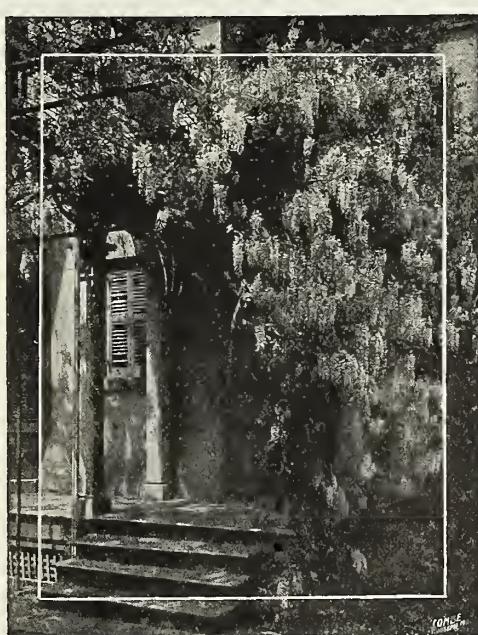
FIG BUSHES—12, \$4.00; 100, \$30.00. Brown Turkey and Celestial.

Nothing less than 12 at the above prices.

PARADICHLOROBENZENE—Peach Tree Borer control. Discovered at last, a sure cure for peach tree borer, recommended by the U. S. Dpt. of Agriculture see Bulletin No. 196, which states that PARADICHLOROBENZENE was the only gas giving positive results, using PARADICHLOROBENZENE with a dosage of one ounce to the tree, will get 98% of the borers.

Time of application Sept. 25 to Oct. 10. Method of application, applied to the soil around the tree, making a little trench and then covering. The fumes descend downward killing all the borers and other insects around the roots. Paradichlorobenzene must not be used on any trees under six years old as it is very powerful and will harm young trees.

No danger in handling this wonderful discovery as it is non-poisonous to man. Use it from Sept. 25 to Oct. 10. Price, per pound, which is enough for 16 trees, \$1.10, parcels post paid.



Wistaria

RUSSELL-HECKLE'S Line of SPRAY PUMPS

We carry only the best makes. Every Sprayer, large or small, is tested before it leaves our store.

BARREL OR ORCHARD SPRAY PUMPS

We have several styles of the barrel or orchard outfits. These are capable of doing a large amount of work with ease; they can be used from a wagon or attached to a drag, and all come complete with hose and spray nozzles.

BINKS NO. 17—Exceptionally popular low priced barrel sprayer.

Unexcelled for orchard use. Can be used in connection with any barrel. It is neat, compact, adjustable, durable and efficient.

Price of pump only, with agitator hose and nozzle; no barrel. **Each, \$13.50.**

MYERS NO. R305—Orchard pump, complete barrel sprayer, hose agitator and nozzle. Price without barrel: **\$14.00.**

MYERS NO. R318—Orchard pump; extra heavy barrel sprayer. Price of pump complete. Price without the barrel: **\$15.00.**



AUTO NO. 5 BRASS SPRAY PUMP



Auto No. 5 Brass Spray Pump Complete with Tank and Elbow Extension.

A double acting general purpose bucket and barrel pump, made entirely of brass. No leather washers to get out of order. Can be used in the garden or orchard. Price: Auto Sprayer No. 5 without tank or extension elbow, **each, \$5.00;** by parcel post, **\$5.40.** Auto Knapsack Tank for No. 5 Pump: **Each, \$4.00;** by parcel post, **\$4.50;** Auto Extension Elbow for No. 5 Sprayer: **Each, 60c;** by parcel post, **70c.**

MYERS NO. 317 IDEAL SPRAY PUMP

Has three distinct nozzles in one—for fine spraying; for close work; coarse spraying for long distances; solid stream for washing windows, automobiles or extinguishing fires. The pump is designed to use in connection with an ordinary pail or barrel.

The pump is well made, durable, all brass, with wood handles. Myers Ideal Sprayer can be used for all kinds of tree spraying as it will throw a long distance, thus enabling the operator to cover a lot of area. It is a vast improvement over pumps of this class. Very similar in appearance to the Standard Brass Sprayer above.

Price: **Each, \$5.00;** by parcel post: **\$5.40.**

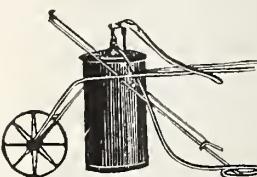
BINKS NO. 20, WHITEWASH AND SPRAY PUMPS

Mounted on 6 gallon galvanized steel tank; pump all brass tubing $1\frac{1}{4}$ inches in diameter with brass ball valves and seats; will develop 100-lb. air pressure. An excellent outfit for small garden truck or young trees. This style is largely used by dairymen, poultry raisers, etc., for disinfecting and whitewashing. Price with 10 feet $\frac{3}{8}$ -inch spray hose, shut off cock spray nozzle all complete: **\$15.00.**

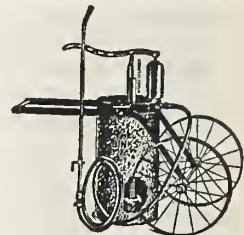
HUDSON NO. 4 BARREL SPRAYER

All complete mounted on barrel ready to use. This is a job that will meet every requirement. It is powerful, light and durable and will develop 200-lb. air pressure with ease. The pump cylinder is made of seamless brass $1\frac{1}{4}$ inches in diameter 7 inches long with 6 inch-stroke. Air chamber is of high carbon steel, 2 inches in diameter, 30 inches long. The valves are bronze balls, mounted in one cage fitted with brass Intake screen and easily removable. Discharge equipment 15 feet $\frac{1}{2}$ inch spray hose, fog nozzle, leakless shut-off cock, and 8 feet of $\frac{1}{4}$ inch iron extension pipe. Complete all set up on heavy barrel: **\$24.00.** f. o. b. Memphis.

PORTABLE SPRAY and WHITEWASH PUMPS



Ideal Portable Spray Pump



Binks No. 21

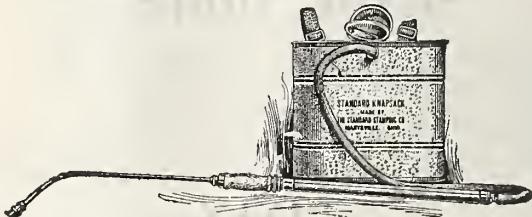
These are portable hand power sprayers easily moved. Tanks hold 10 to 12 gallons, and are attached to a good truck all complete with hose couplings and nozzles.

IDEAL PORTABLE SPRAYER—Equipment, tank 12 gallons, portable, attached to an iron wheelbarrow frame with wheel; 10 feet $\frac{3}{8}$ -inch pressure hose; 10 feet pipe extension; 1 T shut-off cock; 1 nozzle. Weight 65 lbs. Price: **\$22.50.** Price with air tank: **\$32.50.**

BINKS—NO. 21—Portable whitewash and spray machine on two wheels. A general purpose pump. Price: **Each, \$21.50.**

AUTO NO. 3D—Portable sprayer; complete with 10 gallon tank and wheels. **Each, \$22.50.**

KNAPSACK SPRAY PUMPS



Standard Brass Spray Pump Attached to Tank with Potato Extension

STANDARD BRASS SPRAY PUMPS

A pump gun style sprayer made entirely of brass, with solid brass ball valves; no leather suckers to get out of order. with different nozzles you can spray large or small orchards, potatoes or garden crops and poultry houses and will also spray whitewash satisfactorily. Prices as follows:

Standard Brass Spray Pumps with three nozzles, without tank potato extension: **Each, \$4.75;** by parcel post, **\$5.10.**

Standard Galvanized Knapsack Tank: **Each, \$3.75;** by parcel post: **Each, \$4.15.** Standard Potato Extension Attachment, all brass: **Each, \$1.00;** by parcel post: **Each, \$1.10.**

MYERS NO. 330—Galvanized Knapsack Sprayer: **Each, \$12.50.**

MYERS NO. 331—Brass Tank Knapsack Sprayer: **Each, \$17.50.**

BUSINESS ONE-GALLON COMPRESSED AIR SPRAYER



A heavy, strong, substantial, medium-priced compressed air sprayer for all general purposes. Will throw a spray or stream. Price: **\$2.75;** by parcel post, **\$3.00.**

RUSSELL-HECKLE'S LINE OF SPRAY PUMPS—Continued

BUCKET SPRAY PUMPS



Brass Bucket Spray Pump

MAGIC NO. 124—Bucket Pump. Has a large air chamber; a good serviceable outfit. Price, \$4.50. By parcel post, \$4.85.

MYERS NO. 327½—Bucket Pump; makes fine or coarse spray, all brass, provided with a good air chamber. Price, \$4.50. By parcel post, \$4.85.

AUTO NO. 6—Bucket Spray Pump, double action; furnished with 3 nozzles, all brass. Price, \$5.50. By parcel post, \$5.85.

AUTO NO. 7—Barrel and Bucket Pump, large size; adapted for using in a barrel or bucket, double acting, all brass. Price, \$7.50. By parcel post, \$7.95.

MYERS NO. 327½—Bucket Pump; makes fine or coarse spray, all brass, provided with a good air chamber. Price, \$4.50. By parcel post, \$4.85.

MAGIC NO. 124—Bucket Pump. Has a large air chamber; a good serviceable outfit. Price, \$4.50. By parcel post, \$4.85.

HAYE'S BRASS BUCKET PUMP

Has a large air chamber, therefore giving a continuous spray without much labor; the pump is all brass with bronze balls, practically indestructible. Price: Each, \$6.00. By parcel post, \$6.40.

COMPRESSED AIR HAND SPRAYERS

These make a continuous spray; easier to operate than the regular pump style.

NO. 332—One qt. continuous tin sprayer. Each, 75c. By parcel post, \$1.00.

NO. 7212—One qt. continuous, galvanized tank, \$1.00. By parcel post, \$1.25.

AUTO PNEUMATIC COMPRESSED AIR HAND SPRAYER



Auto No. 26A—1 Qt. Pneumatic Compressed Air Hand Sprayer

The most perfect continuous hand sprayer on the market, it is the latest device and best of its kind. This sprayer really operates and won't get out of order like many of the former hand compressed air sprayers. We absolutely guarantee these new style Auto Sprayers.

AUTO NO. 26A—1 Qt., tin pump and tank, \$1.00. By parcel post, \$1.25.

AUTO NO. 26C—1 Qt. tin pump, with galvanized tank, \$1.25. By parcel post, \$1.50.

HAND SPRAYERS

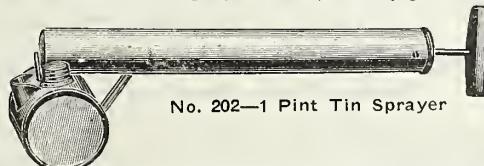


No. 4512—1 Qt. Tin Sprayer

These are convenient and especially desirable for small garden spraying, poultry house, etc.

FAULTLESS—One qt. tin sprayer; Each, 50c. By parcel post, 75c.

NO. 4512—One qt. tin sprayer: Each, 50c. By parcel post, 75c.



No. 202—1 Pint Tin Sprayer

NO. 202—One pint tin sprayer: Each, 40c. By parcel post, 55c.

NO. 95—Three qt. galvanized tank sprayer; Each, \$1.25. By parcel post, \$1.60.

NO. 25—One quart glass jar sprayer: Each, 75c. By parcel post, \$1.00.

COMPRESSED AIR SPRAYERS

These work automatically, a few strokes of the plunger is all that is required. They are very convenient and satisfactory in every way; capacity, about 4 gallons.

NO. 1B—Auto Sprayer, brass tank with auto pop. Each, \$8.50.

NO. 1D—Auto Sprayer, galvanized tank with auto pop. Each, \$7.00.

NO. 1C—Auto Sprayer, gal. tank with stop cock. Each, \$6.50.

PERFECTION NO. 110B—4-gallon brass tank Compressed Air Sprayer. Each, \$8.50.

PERFECTION NO. 110G—4-gallon galv. tank. Compressed Air Sprayer. Each, \$6.50.

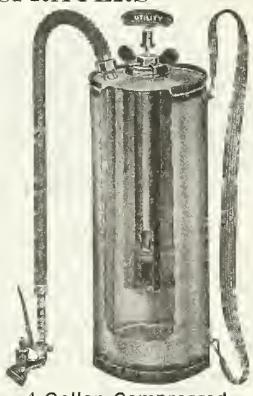
UTILITY NO. 10—4-gal. galv. tank. Compressed Air Sprayer. Each, \$6.00.

UTILITY NO. 15—4-gal. brass tank. Compressed Air Sprayer. Each, \$8.00.

MYERS NO. 296—Compressed Air, 3½-gal. galv. tank. Each, \$7.00.

If any of the above Sprayers are wanted by parcel post, send 35c extra

2-ft. Extension Pipes for above Sprayers, 50c each, extra, for postage.



4 Gallon Compressed Air Sprayer

DRY POWDER SPRAYERS



Lowell No. 131 Dry Powder Sprayer

LOWELL NO. 131—Dry Powder Sprayer. Each, \$1.00. By parcel post, \$1.25.

MODEL B—Dry Powder Sprayer. Each, \$1.25. By parcel post, \$1.35.



Feeny Dry Powder Sprayer

FEENEY—Dry Powder Gun. Each, \$2.50. By parcel post, \$2.75.

Hand Insect Powder Gun. Each, 25c. By parcel post, 30c. Dickey Bug Death Duster. Each, 50c. By parcel post, 60c. Acre an Hour Bug Death Sifter. Each, 75c. By parcel post, 95c.



Spray Hose

We carry the best quality pure rubber hose, which is cut in lengths to suit. Prices as follows:

Three-Eighths Inch Spray Hose. Per foot, 20c.

One-Half Inch Spray Hose. Per foot, 20c.

Five-Eighths Inch Garden Hose, 50 feet, \$7.00.

Postage, 2c per foot extra.

WATER OR SPRINKLING POTS

LISK—Heavy galvanized iron, 6 qt. Each, 75c.

LISK—Heavy galvanized iron, 12 qt. Each, \$1.00.

Above prices do not include parcel post charges. If wanted by parcel post, add 25c extra for stamps.

SPRAY NOZZLES AND ACCESSORIES

Bordeaux Spray Nozzles. Each, 90c.

Vermorel graduating Spray Nozzles. Each, 90c.

Brass extension rods, $\frac{3}{8}$ -in., 2 ft. long. Each, 50c.

Iron extension rods, $\frac{3}{8}$ -in., 6 ft. long. Each, 75c.

Iron extension rods, $\frac{3}{8}$ -in., 8 ft. long. Each, \$1.00.

Bamboo extension rods, $\frac{3}{8}$ -in., 6 ft. long. Each, \$2.50.

Bamboo extension rods, $\frac{3}{8}$ -in., 8 ft. long. Each, \$3.00.

$\frac{3}{8}$ -in. Brass Shut-off Cocks. Each, \$1.00.

$\frac{3}{8}$ -in. Galvanized Hose Clamps. Each, 10c.

$\frac{1}{2}$ -in. Brass Hose Couplings, male or female. Each, 25c.

RUSSELL-HECKLE'S FERTILIZERS

HOW TO USE FERTILIZERS

Fertilizers can always be used to good advantage by opening up the row, sprinkling thinly the fertilizer; then cover same with a little soil and then sow your seed. Or they can be used by working them into the soil along the rows after the plant is up, care being taken not to let it come in contact with the leaves or stem of the plant. For plants that are transplanted, work the fertilizer into the soil thoroughly before transplanting, using from a teaspoonful to a small handful, according to the size and the nature of the plant.

Fifty pounds of Garden Fertilizer is sufficient for a garden 40x50 feet.

For all field crops, use from 200 to 400 pounds per acre, according to the soil.

ARMOUR'S FERTILIZERS

These well known brands need little description, as they are known all over the country. Our customers can depend on them in every way. They will give a big increase in your crop, under favorable conditions, and we recommend them with utmost confidence.

ARMOUR'S ACID PHOSPHATE—Most all soils need phosphates. Guaranteed 16 per cent available phosphate.

Price: Per 100 lbs., \$1.50; per ton, (2,000 lbs.), \$26.00; f. o. b. Memphis.

ARMOUR'S COTTON GUANO—Specially prepared for this crop.

Analysis: Phosphoric acid, 10 per cent; nitrogen, 1 65-100 per cent; potash, 1 per cent.

Price: Per 100 lbs., \$2.50; per ton, (2,000 lbs.), \$44.00; f. o. b. Memphis.

ARMOUR'S 8-4-3 GUANO—The highest grade for all garden and trucking crops.

Analysis: Phosphoric acid, 8 per cent; nitrogen, 4 per cent; potash, 3 per cent.

Price, by freight: 5 lbs., 25c; 25 lbs., \$1.00; 100 lbs., \$3.50; per ton, (2,000 lbs.), \$60.00.

ARMOUR'S CORN SPECIAL—Increase growth of stalk and ears.

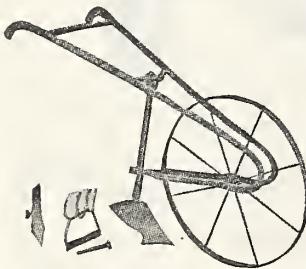
Analysis: Phosphoric acid, 11 per cent; nitrogen, 82-100 per cent; potash, 50-100 per cent.

Price: Per 100 lbs., \$2.25; per ton, \$40.00; f. o. b. Memphis.

WIRE FLOWER POT BRACKET

Very neat and attractive in appearance; very strong; easily put up and instantly removed; 6 inches in diameter. Each, 20c; doz., \$2.00; by parcel post, each, 30c.

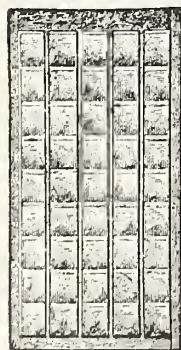
LEADER GARDEN PLOW



There is no plow on the market that is easier on the operator than the Leader. It is so constructed that the center of weight falls directly over the pivoting point of the axle, making it self-balancing. The handle can be raised or lowered to suit man or boy. The bent handle makes plow more easily guided and pushed with less strain on the arms than the cross or straight handles. The attachments that go with each plow are a mouldboard with landslide, shovel, calf-tongue, weeder and cultivator. The cultivator

is better than a rake. All made of best steel. Weight, 25 lbs.

LEADER PLOW NO. 5—Garden plow with malleable iron handle, each, \$3.50.



HOT BED SASH

Standard size, 3 feet wide by 6 feet long; well made, of the very best quality of seasoned lumber. Price: Each, \$3.50. Larger quantities at special prices on request.

MASTERS RAPID PLANT SETTER

The only practical tool for transplanting all kinds of plants—Tobacco, tomato, cabbage, sweet potato, cauliflower, peppers, egg plant, strawberry and all similar plants.

Each plant is set, watered and covered in one operation without any stooping or lame backs. Price: Each, \$6.00; f. o. b. Memphis.



Hot Bed Sash

RAW CHEMICAL MATERIAL

NITRATE OF SODA—This is the most soluble and quickly available form of nitrogen or "ammonia." It is especially valuable for cabbage, cauliflower, beets, carrots, onions, potatoes and similar crops as well as for grass, grain, fruits and flowers. Use 100 lbs. to an acre. By freight: 4 lbs., 25c; 25 lbs., \$1.25; 100 lbs., \$4.50; ton, \$80.00.

PURE BONE MEAL—Invaluable for top dressing lawns. Nothing is better for fertilizing young fruit trees, grape vines, roses, etc. By freight: 4 lbs., 25c; 25 lbs., \$1.00; 100 lbs., \$3.50.

WIZARD BRAND SHEEP MANURE—Nature's own fertilizer. Use on lawns and flowers. By freight: 5 lbs., 25c; 25 lbs., 75c; 100 lbs., \$2.50.

STERLINGWORTH PLANT TABLETS—A new odorless invigorator for house plants; increase growth of plant and doubles the bloom. Per box, 15c; by parcel post, 20c.

STIM-U-PLANT

PLANT STIMULANT TABLET

Trade Mark Registered U. S. Patent Office

The Most Modern, Efficient and Scientific Method of Fertilizing Growing Plants

Stim-U-plant tablets are designed for use by all who grow plants—home gardeners, market gardeners, small fruit growers, fruit growers, florists and farmers. Being composed of water soluble materials of great feeding power and of known weight and percentage of plant food, Stim-U-plant tablets can be used directly to the soil at the base of the plants to feed them definite amounts of available food. Once in the soil they immediately dissolve and mingle with the soil water, pass into the root-hairs and roots to begin feeding the plants. No matter how fertile the soil may be Stim-U-plant is effective in feeding the crops because of its rich, available food content.

No Plants Can Slack as Stim-U-plant acts

Free directions sent with small orders.

Stim-U-plant tablets are packed in four sizes.

Trial Size	Small Size	100 Tablets	1,000 Tablets
15 cents	25 cents	75 cents	\$3.50

By parcel post: Trial Size, 18c; small size, 28c; 100 tablets, 80c; 1,000 tablets, \$3.60.

REX HAND GRINDING MILL

ING MILL



A hand grinding mill that will crack or grind any grain fine or coarse. Make your own corn meal at home with a Rex mill. Each, \$3.50; by parcel post within Third Zone, Each, \$4.00.

RED CHIEF CORN SHELLER



Will shell more corn by hand than any tool of its kind. Is fully guaranteed. Price: Each, \$2.75. By parcel post within the Third Zone, Each, \$3.25.

The "Cole" Quick-Attachable Lespedeza and Sweet Clover Seed Saver

will give you an extra revenue on your land that you have not been receiving. Sow what you want and sell the balance. There is always a market for seed. The only Seed Saving Plan of its kind on the market.

The "COLE" Quick-Attachable Seed Saving Pan is convenient, simple, easy to operate, adjustable to any standard mower of same width of cut. Made in two sizes: 4-foot and 5-foot cut of mower. Price: \$19.35, f. o. b. Memphis.

FLOWER POTS, SEED SOWERS, ETC.

STANDARD FLOWER POTS



All Without Saucers			
2½ inch:	Doz., 15c;	100, \$1.00.	
3 inch:	Doz., 25c;	100, \$1.50.	
4 inch:	Doz., 50c;	100, \$3.00.	
5 inch:	Each, 7c;	Doz., 75c;	100, \$5.00.
6 inch:	Each, 12c;	Doz., \$1.20;	100, \$8.00.
7 inch:	Each, 20c;	Doz., \$2.00;	100, \$15.00.
8 inch:	Each, 35c;	Doz., \$4.00;	100, \$25.00.
9 inch:	Each, 40c;	Doz., \$4.50.	
10 inch:	Each, 50c;	Doz., \$5.50.	
12 inch:	Each, \$1.00;	Doz., \$11.00.	

Packing 50c on each shipment.

FLOWER POT SAUCERS

4 inch:	Each, 3c;	Doz., 30c.
5 inch:	Each, 4c;	Doz., 40c.
6 inch:	Each, 7c;	Doz., 75c.
7 inch:	Each, 10c;	Doz., \$1.20.
8 inch:	Each, 15c;	Doz., \$1.80.
10 inch:	Each, 30c;	Doz., \$3.00.
12 inch:	Each, 40c;	Doz., \$4.50.

Packing 25c on each shipment.

BULB or HALF POTS

6 inch:	Each, 15c;	Doz., \$1.50.
7 inch:	Each, 25c;	Doz., \$2.50.
8 inch:	Each, 35c;	Doz., \$4.00.

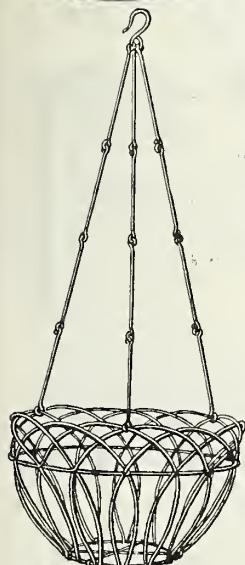
Packing 50c on each order extra.

AZALEA POTS, ¾ SIZE

6 inch:	Each, 15c;	Doz., \$1.50.
7 inch:	Each, 25c;	Doz., \$2.50.
8 inch:	Each, 35c;	Doz., \$4.00.

Packing 50c on each order extra.

WIRE HANGING FLOWER BASKETS



8 inch:	Each, 20c;	parcel post, 30c.
10 inch:	Each, 30c;	parcel post, 40c.
12 inch:	Each, 35c;	parcel post, 45c.
14 inch:	Each, 45c;	parcel post, 60c.

GREEN SHEET MOSS—For flower baskets. Lb., 50c; by parcel post, 60c.



PAPER FLOWER POTS

These are made of heavy Neponset Paper and are nearly equal to the stoneware styles, and much more convenient to handle.

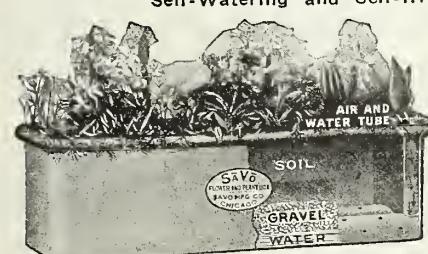
2½ inch:	100, 50c;	1,000, \$4.50.
3 inch:	100, 75c;	1,000, \$6.00.
3½ inch:	100, \$1.00;	1,000, \$8.00.
4 inch:	100, \$1.25;	1,000, \$10.00.
5 inch:	100, \$2.00;	1,000, \$16.00.

By parcel post add 15c per 100 extra.

The above prices are f. o. b. Memphis, no allowance is made for breakage after delivery is made to the railroad company.

SAVO FLOWER AND PLANT BOX

ALL YEAR ROUND
Self-Watering and Self-Irrigating



causing it to be mealy and loose. Blooms will be larger and foliage heavier than in any surface watered device.

Made of best galvanized steel, with neat round corners and a full roll rim, the watering is easy, the drainage ample, the air circulation perfect. The enamel finish both inside and out prevents rust or leakage. They will last in constant use many years.

Prices f. o. b. Memphis.

Standard Stock Sizes and Price List		
Model A—8 inches high, 9½ inches wide, 23 inches long..	\$3.50	
Model B—8 inches high, 9½ inches wide, 29 inches long..	4.00	
Model C—8 inches high, 9½ inches wide, 35 inches long..	4.50	
Model E—8 inches high, 12 inches wide, 12 inches long..	3.50	
Model F—12 inches high, 12 inches wide, 12 inches long..	4.00	

By Express Only.

For Winter and Summer use. Fill with water only once a week. Cannot overwater plants, air goes direct to the roots.

Plants are kept healthy and fresh the year around by absorbing the exact amount of water they require from below and allowing a perfect circulation of AIR to pass up through the soil

causing it to be mealy and loose. Blooms will be larger and foliage heavier than in any surface watered device.

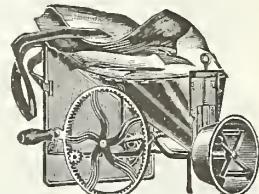
Made of best galvanized steel, with neat round corners and a full roll rim, the watering is easy, the drainage ample, the air circulation perfect. The enamel finish both inside and out prevents rust or leakage. They will last in constant use many years.

Prices f. o. b. Memphis.

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Model E—8 inches high, 12 inches wide, 12 inches long..	3.50	
Model F—12 inches high, 12 inches wide, 12 inches long..	4.00	

SEED SOWERS

CAHOON BROADCAST SEED SOWER—One of the best seeders manufactures, and sows all kinds of grain, clover, seeds, etc. rapidly and evenly. Price: Each, \$4.00; by parcel post, \$4.40.



CYCLONE SEED SOWER



Will sow timothy, clover, oats, rye, wheat, millet, grass seeds, peas, sorghums, etc. Distributes evenly, works perfectly; has an agitating feed plate, which insures a uniform flow of seed. Price: Each, \$2.00. By parcel post: \$2.20.

THOMPSON'S WHEELBARROW SEED SOWER

The ideal implement for sowing broadcast, grass, clover and Lespedeza seed. The hopper being close to the ground, the seed falls quickly, therefore not effected by the wind, which is the case with other broadcast hand sowers.

Easy to operate, easy to change the amount of seed to be used on an acre. Seeds can be sown separately or mixed at the rate of 25 to 40 acres per day.



The Thompson Wheelbarrow Seeder gives a perfect uniformity and evenness of putting down the seed, more so than any other style we know of. We handle only the No. 2 Seeder, which is superior to the No. 1, from the fact that it sows in addition to the heavier seeds, like Timothy, Alfalfa and Clover seeds, all



Grass seeds and Lespedeza, while the No. 1 Seeder only sows heavy seed. The large machine costs but a fraction more. Price No. 2, 14-ft. Thompson Wheelbarrow Seeder: Each, \$12.50. Price No. 12, 14-ft Royal Chain Wheelbarrow Seeder: Each, \$12.50.

THOMPSON GRAIN HOPPER

To be used in combination with the Thompson's Wheelbarrow Seed Sower. The hopper is made to fit on the gearing and is for sowing broadcast, Oats, Wheat, Barley, Sorghums, Cow Peas, etc.

NO. 4—Thompson Grain Hopper. Each, \$5.50.

THE HORN SEED SOWER

A splendid little tool, simple and easy to operate. Will sow any fine seed like clover, lespedeza, timothy, alfalfa and grasses. Holding the tube downward wind won't blow seed away. We know this seeder to be good. Price: \$1.00; by parcel post, \$1.10.



SPRAY MATERIALS

Spraying your trees will save 90 per cent of your crop. It is worth all your labor and expense to try it. Poisonous insecticides and liquids are not mailable. Prices are f. o. b. Memphis, buyer paying carriage charges, excepting where priced parcel post paid.



worms and insects. package, 70c; not mailable.

TREE TANGLEFOOT—Used as a band on all kinds of trees; will prevent any kind of insects on them. This is one of the most effective treatments for insect troubles. By freight: Lb., 50c; 3 lbs., \$1.35; 5 lbs., \$2.00; parcel post: Lb., 60c; 3 lbs., \$1.50; 5 lbs., \$2.20.

TUBER TONIC—A new preparation, especially made to kill potato beetle, and at the same time act as a tonic for the plant. 1/2 lb., 30c; lb., 50c; not mailable.

FISH OR WHALE OIL SOAP—Prevents and cures scale, aphids and other troubles on plants and trees. By freight: Lb., 30c; parcel post, 40c.

GRAFTING WAX—Used for grafting scions on trees. 1/4 lb., 20c; by parcel post, 30c.

HAMMOND'S GRAPE DUST—Prevents and cures blight on all plants; very effective on roses; not poisonous. By freight: Lb., 25c; 5 lbs., 80c; parcel post: Lb., 35c; 5 lbs., \$1.00.

CHAMPION TREE KILLER (Poison)—For trees, shrubs and vines. Trees die quicker, stumps rot quicker than old method of deadening.

Directions—Chop all around the trees about one or two feet from the ground, making a downward cut one or two inches deep; then pour a small amount of the Tree Killer in the cut, going all around the tree. This can best be done if you use a coal oil can or a can with a spout, so as not to waste the liquid. Price: Gal., \$1.25; f. o. b. Memphis. Packed in one, two and five-gallon cans.



BLIGHT AND BUG DEATH MIXTURE prevents blight on tomatoes. Use it in the soil when preparing your seed bed or use it when setting out your plants. Full directions are on the box. Vaycide Blight and Bug Death Mixture comes highly recommended. Many customers report it has done all the manufacturers claim for it. Price: 1/4 lb., 25c; 1/2 lb., 45c; lb., 75c. Cannot be mailed.

DRY OR POWDERED BORDEAUX MIXTURE—The new form of Bordeaux will keep indefinitely; cures and controls blight. By freight only. Lb., 50c; 5 lbs., \$2.00; 25 lbs., \$7.50.

DRY OR POWDERED BORDEAUX WITH ARSENATE OF LEAD—Controls at one spraying all fungus troubles and insects. Lb., 60c; 5 lbs., \$2.75; 10 lbs., \$4.75. By freight only.

CALCIUM ARSENATE—Recommended by all experimental stations for cotton boll weevil; also a sure remedy for army and other worms. 1/2 lb., 30c; lb., 50c; 5 lbs., \$1.75; 100 lbs., \$25.00. Cannot be mailed.

PARIS GREEN—Has been on the market for many years, and is known for its effectiveness. It must be used with care, one teaspoonful to one gallon of water will be safe. 1/4 lb., 1/2 lb., 30c; lb., 50c; by freight only.

NIKOTEEEN—Effective against all insects and does not damage the growth upon which it is sprayed; especially useful on aphids and lice on both vegetable and flowering plants. One ounce Nikoteen makes 10 gallons of spraying solution. Oz. bottle, 30c; 2 oz. bottle, 50c; 1/2 lb., \$1.00. By freight only.

CUT WORM KILLER—Absolutely certain death to the troublesome cut worm. By freight only. Lb. box, 30c.

POWDERED HELLEBORE—Will kill most all insects; does not burn plants; is poisonous, but safe to use. Lb., 75c; by freight only.

HAMMOND'S THrip JUICE—A sure shot against aphids and all sucking insects; not poisonous. Cannot be mailed 1/2 pt., 40c; pt., 60c.

NO SCAB—For preventing smut of wheat, oats and other grain. Also to prevent scab on potatoes; never plant them without first treating them with No-Scab. 8 oz. bottle, 40c; by freight only.

SLUG SHOT—Especially effective against cut worms and is not poisonous. Price, by freight: Lb., 20c; 5 lbs., 60c; 125-lb. keg, \$11.00; parcel post: Lb., 30c; 5 lbs., 75c.

LIME SULFUR SOLUTION—A concentrated liquid form easily mixed. Simply add 10 gallons of water to 1 gallon of the solution. Price: Qt., 40c; gal., \$1.25; 5 gals., \$5.40. By express only.

DRY LIME SULFUR—Dry Lime Sulfur is the actual standard liquid material in dry powdered form and requires only the addition of water to make an effective spray. By freight: Lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.50; 25 lbs., \$4.50; 100 lbs., \$15.00; 1,000 lbs., \$150.00. Price: Qt., 40c; gal., \$1.00; 5 gals., \$4.50. By express only.

INSECT CHECKER—Sure death to all leaf-eating insects. Box, 25c; not mailable.

KEROSENE EMULSION—Especially effective against aphids and lice on all plants. By freight only. Pt., 30c; qt., 50c.

SULPHO TOBACCO SOAP—Kills all insects on plants; simple and effective. By freight: 3 oz. cake, 10c; 8 oz., 25c; parcel post: 3-oz. cake, 15c; 8 oz., 35c.

TOBACCO DUST—Especially desirable for use against lice and sucking insects. By freight: Lb., 20c; 10 lbs., 70c; 25 lbs., \$1.50; by parcel post: Lb., 30c.

POWDERED SULPHUR—Will prevent and cure mildew; should be used on all roses in the spring; apply dry. By freight: Lb., 25c; parcel post, 35c.

FORMALIN—Used for treating oats, wheat, etc., to prevent smut; also to prevent potato scab. One pound will make 30 gallons of solution. By freight only. Lb. bottle, \$1.25.

BOROWAX—Affords absolute protection against borers, when applied to peach, plum and apple trees. Keeps the borers out. Treat all young trees when first set out with Borowax and you will be repaid for your trouble and expense. Price: Qt., 40c; gal., \$1.25; f. o. b. Memphis. Borowax cannot be mailed.

CORROSIVE SUBLIMATE—Used for treating sweet potatoes before bedding to prevent black rot and other fungus diseases. One ounce will make 8 or 10 gallons of water, enough to dip 8 to 10 bushels of sweet potatoes. Price: Lb., \$2.00. By express or freight only. Cannot be mailed.

BUG DEATH—Very safe, being non-poisonous; effective on all garden insects. Price, by freight: Lb., 20c; 3 lbs., 45c; 5 lbs., 60c; 12 1/2 lbs., \$1.25; 100 lbs., \$9.00; parcel post: Lb., 30c; 3 lbs., 60c; 5 lbs., 80c; 12 1/2 lbs., \$1.70.

BLACK LEAF 40—A nicotine solution for destroying aphids, lice, etc., on both garden and flowering plants. A teaspoonful makes 1 quart of solution. This is one of the most effective preparations for general sucking insect plants. By freight only. Oz. bottle, 30c.

S. W. INSECTO—A dry-powdered insecticide and fungicide; controls leaf-eating insects and fungi diseases in one spraying, thereby saving time and money. By freight only. Lb., 40c; 5 lbs., \$1.75.

PRATT'S SCALECIDE—Cures and prevents San Jose scale. One of the best dormant sprays; easy to apply; not poison. By freight only. Qt., 55c; gal., \$1.45; 5 gals., \$6.45.

PRATT'S SULFOCID—A sure preparation for the second spraying. Prevents wormy fruit; does not burn and easy to use. Directions on each can. Pt., 45c; qt., 80c; gal., \$2.25.

PYROX—Destroys insects and prevents blight all at one spraying; a combination of Bordeaux, Paris Green and Arsenate of Lead. Especially recommended for tomato blight, etc. Lb. jar, 40c; 5 lbs., \$1.50; 10 lbs., \$2.50; by freight only.

HAMMOND'S COPPER SULPHATE SOLUTION—Prevents and cures blight, rot and other fungus troubles on all kinds of trees and plants. By freight only. Qt., 50c.

TO MEASURE INSECTICIDES

The following simple table will help the amateur to dilute spray mixture: One part of any spray mixture to 50 parts of water measures as follows:

1 teaspoonful to 1 pint water.

2 tablespoonsfuls to 1 gallon water.

1/2 pint to 12 gallons of water.

1 quart to 1 bbl. or 50 gallons water.

This is a 1 to 50 solution; for weaker or stronger solution you may decrease or increase as required.



RUSSELL-HECKLE'S POULTRY SUPPLIES

We handle only the highest grades of poultry supplies and sell at as low prices as is consistent with quality. In our line of mixed grains, we have exercised great care to handle only the best of its kind, free from mill refuse and siftings.

As the market changes on grain are so very frequent, we cannot make prices that will hold good throughout the season, but will be glad to quote upon application. Prices quoted on all poultry supplies are for goods by express or freight, charges collect, unless otherwise quoted.



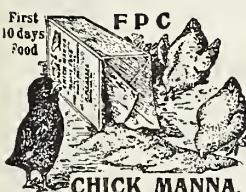
CONKEY'S BUTTERMILK STARTING FOOD

The history of poultry keeping records no triumph such as this wonderful chick food has had. The rich, pure buttermilk is mixed with a combination of clean, wholesome grains, balanced just right for the sensitive organs of the little chicks. The lactic acid keeps down yourself. By freight 2½ lbs., 20c; 5 lbs., 35c; 10 lbs., 60c; by parcel post, 2½ lbs., 30c; 5 lbs., 50c; 10 lbs., 80c.

CONKEY'S BUTTERMILK GROWING MASH

A real companion to the starting feed and keeps up its splendid work. Conkey's Buttermilk Growing Mash, develops bone and muscle, gives wonderful growth and gets your stock in shape for some real egg-laying. Price, by freight: 5 lbs., 30c; 10 lbs., 50c; by parcel post, 5 lbs., 45c; 10 lbs., 70c. For quantity price see Green Ink List.

F. P. C. CHICK MANNA



F. P. C. Chick Manna, or Health Food for Little Chicks, promotes and preserves health. Chicks when first hatched need no food for at least from 12 to 24 hours. Chick Manna should be the first food and exclusively fed for 10 days. Lb., 15c; 3 lbs., 40c; 5 lbs., 60c; 15 lbs., \$1.65; 60 lbs., \$6.00. By parcel post: Lb., 22c; 3 lbs., 50c; 5 lbs., 75c; 15 lbs., \$2.00.

BLATCHFORD'S MILK MASH

WILL SAVE YOUR BABY CHICKS—No more bowel trouble, leg weakness or white diarrhoea. Start right! Try a bag of this complete milk substitute, which nourishes all kinds of young poultry the same as pure whole milk, at half cost. By freight: 4 lb. pkg., 40c; by parcel post: 55c; 25 lb. bag, \$1.50; by parcel post within Third Zone: 25 lb. bag, \$1.95.

CHAMBERLAIN'S PERFECT CHICK FEED

Nature's own food blended together in just the proper proportions that make the raising of chickens a source of pleasure and profit. Contains meat, bone, charcoal, grit, oatmeal, etc. Does not contain CORN, and avoid bowel trouble, and other diseases caused by improper food. 4 lbs., 25c; by parcel post, 4 lbs., 40c. For bulk prices see Green Ink Price List Sheet enclosed.

FULL-O-PEP OATMEAL

Full-O-Pep Oatmeal is a specially prepared oatmeal for poultry, finely granulated, easily digested. There is no waste in feeding oatmeal to chicks. It makes muscle, bone and nerves very rapidly; promotes big development, rapid growth and early maturity. Price: 4 lbs., 25c; by parcel post, 4 lbs., 40c.

FUL-O-PEP FATTENING FEED

Full-O-Pep Fattening Mash is used finely granulated, easily digested. There is no waste in feeding oatmeal to chicks. It makes muscle, bone and nerves very rapidly; promotes big development, rapid growth and early maturity. Price: 4 lbs., 25c; by parcel post, 4 lbs., 40c.

FUL-O-PEP PIGEON FEED

out any corn whatever, therefore it gives results. The mixture being clean and sweet your pigeons will thrive and pay a big investment. Don't feed pigeons poor grade feed. Avoid any trouble by using Full-O-Pep Pigeon Feed. Its made right in every way.

Price: 5 lbs., 25c; by parcel post, 40c.

Ask for quantity prices on all Full-O-Pep Feeds.

FUL-O-PEP FINE CHICK

A complete grain feed for chicks from 2 to 8 weeks old. It is a standard mixture of recleaned cracked grains and seed, hulled oats, fine granulated bone and fine charcoal. It produces healthy and rapid growth, and is intended for feeding until the chickens are large enough to be fed the coarse chick feed. A trial will demonstrate its feeding value. 5 lb. package, 25c; by parcel post, 35c; See Green Ink list for bulk prices.

PRATT'S BABY CHICK FOOD

A complete food for the first three weeks.

It prevents white diarrhoea leg weakness and digestive troubles.

It more than speaks for itself from the chicks it saves.

By freight: 2½ lb. package, 25c; 5½ lb. package, 55c; by parcel post: 2½ lb. package, 35c; 5½ lb. package, 70c.

Bulk prices quoted on the Green Ink Price List enclosed.



BUCKEYE ROLLED OATS

A valuable food for both adult fowl and growing chicks. By freight: 5 lbs., 30c; by parcel post, 45c.

FUL-O-PEP GROWING MASH

This is, without doubt, the finest quality growing mash ever placed at the disposal of the poultryman, large or small. It is, in part, oatmeal ground fine—and nicely balanced with other bone and muscle forming ingredients conductive to the making of rapid growth.

8½ lbs., 40c; by parcel post, 55c. See Green Ink list for bulk prices.



FUL-O-PEP DRY MASH

You will agree with us when you try it, that Full-O-Pep is the last word in an egg-producing ration. Two quarts to every ten hens. Feed it dry from a good hopper.

Price of Full-O-Pep Mash: 8½ lbs., 35c; by parcel post, 50c. For price on 100 lbs., or full bag lots, see Green Ink Price List which we enclose.



FUL-O-PEP SCRATCH GRAIN

Contains a large assortment of small and cracked grain, giving the hen a properly balanced ration. It contains the grains for the laying hens to keep them in condition to lay; you should feed a dry mash along with it. Feed about two-thirds of a quart of Full-O-Pep Scratching Feed to each ten hens, in straw or litter in order to make the birds scratch, as exercise is necessary to health.

8½ lbs., 30c; by parcel post, 45c. See Green Ink Price List for bulk prices.



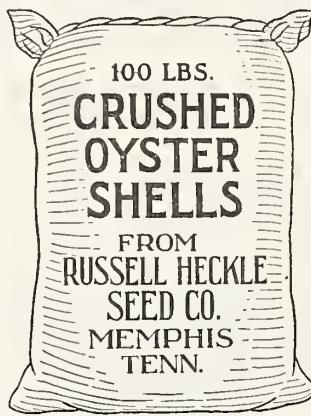
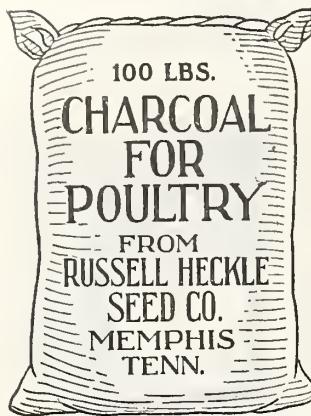
FUL-O-PEP COARSE CHICK

A mixture of grains a trifle larger than Baby Chick Grains to be fed to baby chicks after eight weeks old. It is made like all the balance of the Full-O-Pep Feeds from the very best quality of grains cracked to the proper size, thoroughly sifted and clean.

By freight: 6 lbs., 25c; by parcel post, 40c.



R. H. CO.'S MISCELLANEOUS POULTRY FEED

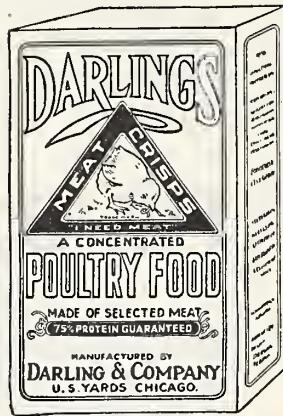
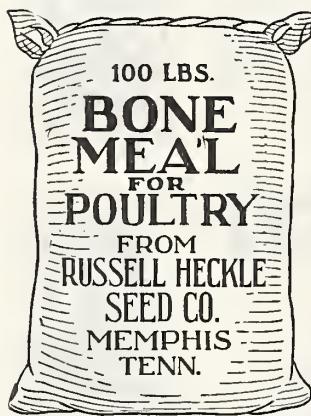


CHARCOAL FOR POULTRY

Is made in three sizes, coarse, for hens; medium, for pigeons, and fine for baby chicks. Mix it either with their feed or to be used plain from hoppers. Nothing equals charcoal as a disease preventive. By freight, 3 lbs., 25c; by parcel post, 40c.

GROUND OYSTER SHELL

This should be fed from hoppers; keep it before your poultry daily. We have both the coarse for hens and the fine for pigeons and chicks. By freight, 10 lbs., 25c; by parcel post, within second zone, 45c.



POULTRY BONE MEAL

This is especially valuable for poultry as an egg maker and prevents leg weakness in young chicks. Mix it in their feed. We can furnish the coarse for hens and the fine grade for chicks. 3 lbs., 25c; by parcel post, 40c.

DARLING'S MEAT CRISPS

A clean, wholesome, meat concentrate for poultry. Guaranteed to contain 75 per cent Protein and will keep perfectly under any condition, where ground grain will remain sweet. By freight, 3 lbs., 35c; by parcel post, 45c. By freight, 6 1/2 lbs., 70c; by parcel post, 85c.

DIGESTER-TANKAGE OR MEAT MEAL

A pure lean-beef fibre, carefully dried while fresh, and will keep indefinitely. Its thorough dryness and the entire absence of any taint or unpleasant odor, make it a most excellent form of food for chickens and other fowls, as also for hogs. It is excellent for hopper feeding and may be mixed and fed in a mash to great advantage. By freight, 4 lbs., 25c; by parcel post, 40c.

MISCELLANEOUS POULTRY GRAINS

Cotton Seed Meal: 5-lb. pkg., 25c; by parcel post, 40c.
 Buckwheat: 5-lb. pkg., 30c; by parcel post, 45c.
 Corn Chop, sifted: 5-lb. pkg., 20c; by parcel post, 35c.
 Hemp Seed: 5-lb. pkg., 50c; by parcel post, 65c.
 Millet Seed: 5-lb. pkg., 25c; by parcel post, 40c.
 Sunflower Seed: 5-lb. pkg., 40c; by parcel post, 55c.
 Wheat Shorts: 5-lb. pkg., 20c; by parcel post, 35c.
 Wheat Bran: 5-lb. pkg., 20c; by parcel post, 35c.
 Gluten Meal: 5-lb. pkg., 25c; by parcel post, 40c.
 Linseed Meal: 5-lb. pkg., 30c; by parcel post, 45c.
 Alfalfa Meal: 5-lb. pkg., 20c; by parcel post, 35c.
 Feeding Wheat: 5-lb. pkg., 25c; by parcel post, 40c.
 Larger amounts quoted on application.

MEAT SCRAPS

A standard meat food for poultry of all ages. For success and profit it is absolutely necessary to supply them with plenty of animal food in winter to take the place of bugs and other insects which they get during the summer months. Feed from a dry food hopper. Let the fowls help themselves, they will not eat too much. By freight, 4 lbs., 25c; by parcel post, 40c.

FISH MEAL

Excellent for making poultry mash, being very high in protein. Use one pound fish meal to ten pounds of any good mash or wheat bran. Price: 4 lbs., 25c; by parcel post, 4 lbs., 40c.



GRIT FOR POULTRY

A highly essential article for both large and small chicks. Don't fail to provide the fowls with some kind of grit. They need it as a grinder or so-called chicken's teeth. We can supply all kinds of grit.

EGG-SUR-GRIT for hens: 10 lbs., 25c; by parcel post, within second zone, 45c.

CRYSCO GRIT for hens: 10 lbs., 25c; by parcel post, within second zone, 45c.

CRYSCO GRIT for chicks: 6 lbs., 25c; by parcel post, within second zone, 40c.

MICA CRYSTAL GRIT for hens: 6 lbs., 25c; by parcel post, within second zone, 40c.

MICA CRYSTAL GRIT for chicks: 6 lbs., 25c; by parcel post, within second zone, 40c.

For prices on larger quantities see our Green Ink Price List enclosed.

DRIED BUTTERMILK

A small amount of dried buttermilk added to your mash will make your chicks grow faster, larger and mature quicker. The lactic acid in dried buttermilk not only prevents white diarrhoea and other poultry troubles that play havoc with young chicks, but also increases the digestibility of the balance of the ration. Try a box and you will be agreeably surprised with the increased health and efficiency of your flock. It will increase your egg production, no matter what kind of dry mash you have been using. Price: 1-lb. box, 25c; by parcel post, 35c; 5-lb. box, \$1.00; by parcel post, \$1.15.

RED CROSS HEALTH GRIT FOR PIGEONS AND CHICKS

A tonic and grit combined for pigeons; one of the best preparations on the market. By freight, 6 lbs., 25c; by parcel post, within second zone, 40c.

RED CROSS BABY CHICK GRIT—5 lbs., 25c; by parcel post, 40c.

RED CROSS BIRD GRIT—A superior grit for canary birds. Box, 20c; by parcel post, 30c.



BLATCHFORD'S CALF MEAL

The Complete Milk-Equal. Just the thing to raise or veal your calves right from birth.

Then sell your milk and get the benefit of the high creamery prices.

No more scouring calves.

It is absolutely the only milk substitute containing all the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for digestion. Being the original and best, it will push your calves forward better and quicker than any other food. By freight: 25 lbs., \$1.50; by parcel post, within second zone, \$1.85.



"Good to the last drop."

BLATCHFORD'S PIG MEAL

From Sow to Pasture. Wean your little pigs easily and cheaply on Blatchford's Pig Meal. From Pig-hood to Pork-age it gives big bone and solid flesh. Prevents loss of growth and vitality during the critical weaning period, and always makes the runts catch up. 25-lb. bag, \$1.25; by parcel post, within second zone, \$1.60.

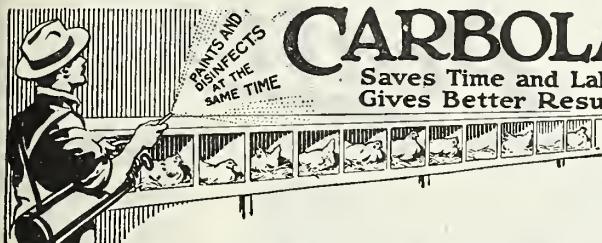
BLATCHFORD'S LAMB MEAL

Especially prepared for young lambs and goats, besides bringing them to maturity quickly. It keeps them in the best condition at all times. Feeding directions in every bag. Price: 25-lb. bags, \$1.50; by parcel post, in limit of second zone, \$1.85.

R. H. CO.'S POULTRY SUPPLIES

CARBOLA

Saves Time and Labor
Gives Better Results



The disinfectant that paints. Carbola is infinitely superior to lime, which loses what slight disinfectant qualities it ever had by slacking when exposed to the air. It is very much better than kalsomine or whitewash, because it paints just as clean and bright a white, but will not chip, scale or peel off—no matter how many coats are applied. It may be used on either stone, brick, wood, metal or cement, and can be put on over a whitewashed or painted surface. Can be applied with either sprayer or brush. Price, trial pkg., postpaid, 45c; by express, 30c; 10-lb. pkg., \$1.25; by parcel post, within second zone, \$1.40; 50-lb. sack, \$5.00; by express only.

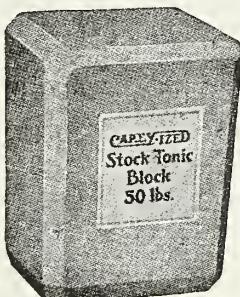
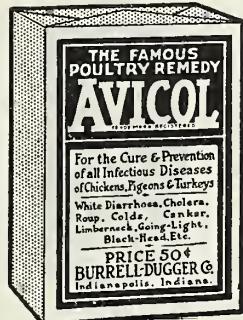
TALCIMIZED SODIUM FLUORIDE

Price: 1/2-lb. box, 35c; by parcel post, 75c.

SALT BRICK

Careyized Salt Brick. Pure salt in brick shape, pressed very hard. 3-lb. brick, 25c; by parcel post, 40c; 50-lb. brick, \$3.00.

Blackman's Medicated: Each, 25c; by parcel post, 40c.



AVICOL

A safe and effective remedy in tablet form for White Diarrhoea, Cholera, etc., in small and large grown fowls. Avicol is now being used by thousands of successful poultry raisers the world over. Price: 26c, 52c; box, \$1.04; war tax included; parcel post paid.



BEE DEE STOCK AND POULTRY POWDERS

A poultry and stock medicine, formerly called Black Draught. Highly recommended for all stock and poultry troubles, hog cholera, etc. 26c a can, war tax added; by parcel post, 32c.

POULTRY MUSTARD

Improved digestion means greater nourishment from a given quantity of food; this means more eggs. This is not ordinary table mustard, but is prepared for poultry alone. Feed a tea-spoonful for every six fowls; mix with dry meal, then add water. By freight 1 1/2-lb. box, 50c; by parcel post, 60c. By freight, 3-lb. box, 85c; by parcel post, \$1.00. By freight, 5-lb. box, \$1.25; by parcel post, \$1.40.

A scientifically compounded preparation. The various kinds are used for live stock and poultry to prevent lice and mites as well as a general use about the farm, barn and he house.

Zenoleum is used and recommended by fifty agricultural colleges and experimental stations.

Zenoleum Dip and Disinfectant, 8-oz. can: By Express, 35c. Zenoleum Dip and Disinfectant, 1-qt. can: By Express, 75c. Zenoleum Dip and Disinfectant, 2-qt. can: By Express, \$1.25. Zenoleum Dip and Disinfectant, 1-gal. can: By Express, \$2.00. Zenoleum Dip and Disinfectant, 5-gal. can: By Express, \$8.00. Zenoleum Lice Paint, 1-qt. can: By Express, 50c. Zenoleum Lice Paint, 2-qt. can: By Express, 90c. Zenoleum Lice Paint, 1-gal. can: By Express, \$1.25.

Above Not Mailable.

Zenoleum Lice Powder: By Express, Box, 25c; parcel post, 35c.

DON SUNG

A new discovery, makes hens lay, absolutely guaranteed to put your hens in good condition and make them lay more eggs.

Don Sung (Chinese for egg laying), is given in the feed and doesn't force or burst the hen in any way; in fact, it makes her healthier. It is a new scientific discovery for hens, that merely stimulates the egg organs, making her strong and vigorous and as a result she lays regularly in any season. Try a box. Price, war tax added: Box, 30 tablets, 52c, parcel post paid. Large size, war tax added: Box, 90 tablets, \$1.04, parcel post paid. Special size, war tax added: 500 tablets, \$5.20, parcel post paid.



KOW-KURE

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of KOW-KURE. Carefully follow the directions as given on the box, and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained after-birth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only.

Price, war tax added: Small Size, 68c; by parcel post, 80c. Price, war tax added: large size, \$1.30; by parcel post, \$1.45.



WATER GLASS

For preserving eggs; put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months with Sterlingworth water glass. One quart is sufficient for 12 dozen eggs. 1-qt. size, 40c; 1-gal. size, \$1.25. Not mailable.



Bu-Du For Roup

BU-DU

A sure remedy for roup, colds, influenza, etc., in poultry. Guaranteed to give perfect satisfaction or money refunded. Price, Per Box of 90 tablets, 52c; war tax included, parcel post paid.



Destroys worms in cattle, hogs and horses. Mixed in the feed the stock take their own medicine. Send for booklet for information on this splendid preparation.

War Tax Added.

Stock Tonic: 5-lb. pkg., 65c, by express; 75c, parcel post paid.

Stock Tonic: 15-lb. pkg., \$1.56, by express; \$1.90, parcel post paid.

Stock Tonic: 50-lb. pkg., \$4.16, by express.

Stock Tonic: 100-lb. pkg., \$7.00, by express.

Poultry Tonic: 1 1/2-lb. pkg., 26c, by express; 30c, parcel post paid.

Lice Powder: 1-lb. pkg., 25c, by express; 30c, parcel post paid.

Gall Cure: 26c, by express; 30c, parcel post paid.

R. H. CO.'S POULTRY SUPPLIES

*Licene
Pipene*

Injected in the nostrils from effects a sure cure. Price, 63c, war tax added; parcel post, 70c.

Licene will destroy every louse and "nit" on your chickens, usually keeping them free from lice for six months. Per tube, 60c; by parcel post, 5c extra.

One application cures the worst case of Roup. It is safer than all the other Roup powders which are given in the water, as Pipene is inside the mouth and one treatment

effects a sure cure. Price, 63c, war tax added; parcel post, 70c. Prevents and cures White Diarrhoea in baby chicks. Reaches the very seat of this dreaded trouble, and is absolutely a sure and safe remedy. Price, 63c, war tax added; by parcel post, 67c.

Diarrene

For colds in chickens; put up in tablet form, absolutely guaranteed; full directions given with all orders. Price, 63c a box, war tax included. By parcel post, 65c.

Coldene

REUMATENE

For rheumatism in chickens caused by exposure to draughts, cold or wet houses; convenient and easy to administer. Price, 63c a box; war tax added. By parcel post, 65c.

LIVERENE

For inflammation of the liver; will absolutely cure this common trouble in poultry. We absolutely guarantee Liverene. Price, 63c a box, war tax added. By parcel post, 65c.

POXENE

For the chickenpox; absolutely guaranteed to cure this troublesome disease. Price, 63c, war tax added; parcel post paid.

TONENE

A tonic for chickens, especially good for moulting and as an appetizer. Price, 63c a box, war tax added, parcel post paid.

PHENOLENE

Excellent for dogs, poultry, cattle, sheep, horses and hogs. Phenolene for general disinfecting should be mixed one part Phenolene to 100 parts of water. Pint, 30c. Cannot be mailed.

CHOLERINE

A scientific compound for curing cholera, roup and other poultry ailments; they take their own medicine, as the preparation is used in the drinking water. Two size bottles, 37c and 68c each, war tax added. Not mailable. Cholerine Tablets, 68c a box. Postpaid.



BEE BRAND INSECT POWDER

Absolutely the most effective and satisfactory insect powder on the market; also good against fleas, lice and the pesky fly. Small can, 30c; large can, 60c; by parcel post, small can, 32c; large can, 64c.

RED STAR DISINFECTANT

Absolutely sure death to all bugs, insects, ants, roaches and mosquitoes. A clear liquid, this will not stain the most delicate article and is fully guaranteed in every way. Price, 1-qt. can, 75c; 1-gal. can, \$2.50. By express only.

DR. HESS POULTRY AND STOCK FOOD

	War Tax	Parcel
	Added	Post Paid
Dr. Hess Poultry Panacea: 1 1/2 lb. pkg.	\$0.26	\$0.34
Dr. Hess Poultry Panacea: 5 lb. pkg.	.78	.95
Dr. Hess Poultry Panacea: 12 lb. pkg.	1.56	1.86
Dr. Hess Roup Remedy, 4 oz. pkg.	.52	.55
Dr. Hess Stock Tonic, 2 lb. pkg.	.26	.34
Dr. Hess Stock Tonic: 4 1/2 lb. pkg.	.52	.67
Dr. Hess Stock Tonic: 25 lb. pail.	2.35	

BAG BALM

A soothing ointment. Relieves and cures udder trouble, caked bags, cow pox, chapping, inflammation of all kinds in cows. Prevents soreness, makes the cow an easy milker. Price: per box, 63c, war tax added; by parcel post, war tax added, 68c.



WRIGHT'S CONDENSED SMOKE

Is a liquid smoke and contains nothing except what is obtained by burning hickory wood. By applying two coats of Wright's Condensed Smoke directly to the meat with a brush after meat has gone through the salt, it will be thoroughly smoked; will have a delicious flavor and will keep solid and sweet and free from insects through the entire summer. Trial size, 27c per bottle, war tax added; quart size, \$1.04, war tax added. By express only.

Pratts

POULTRY AND STOCK REMEDIES

	War Tax	Parcel
	Added	Post Paid
Pratts Poultry Regulator: Small pkg.	\$0.26	\$0.34
Pratts Poultry Regulator: Medium pkg.	.52	.62
Pratts Poultry Regulator: 9 lb. pkg.	1.15	1.35
Pratts Poultry Regulator: 12 lb. pkg.	1.72	1.90
Pratts Poultry Regulator: 25 lb. pkg.	3.12	...
Pratts Roup Powder: Small	.26	.28
Pratts Cholera Remedy: Small	.26	.28
Pratts Gape Remedy	.32	.35
Pratts Chicken Pox Remedy: Small	.32	.35
Pratts Chicken Pox Remedy: Large	.62	.65
Pratts White Diarrhoea Remedy: Small	.26	.28
Pratts White Diarrhoea Remedy: Large	.52	.55
Pratts Condition Tablets	.26	.28
Pratts Lice Powder	.30	.40
Pratts Lice Ointment	.35	.40
Pratts Red Mite Special: Quart	.60	...
Pratts Animal Regulator: Small pkg.	.32	.38
Pratts Animal Regulator: Medium pkg.	.63	.70
Pratts Animal Regulator: 12 lb. pail.	2.65	2.90
Pratts Animal Regulator: 25 lb. pail.	4.25	...
Pratts Calf Tonic	.63	.70
Pratts Heave Cure for Horses	.52	.60
Pratts Pink Eye and Distemper Cure	.78	...
Pratts Fly Chaser: 1/2 gallon can	.85	...
Pratts Fly Chaser: 1 gallon can	1.40	...
Pratts Worm Remedy for Horses	.63	.70
Pratts Cow Remedy	.63	.70
Pratts Animal Dip: Quart can	.60	...

REVENGE LICE POWDER

An oily Lice Powder that sticks well to the feathers and will kill all body lice on Poultry. Per box, 30c, 50c, 90c; by parcel post, 40c, 60c and \$1.00.

Cyphers Lice Powder: 5 oz., 10c; by parcel post, 15c; 3 lbs., 40c; by parcel post, 60c.

LICECIL

Kills poultry lice by simply hanging up the bottle in the poultry house. Where the house cannot be conveniently closed mix the whole bottle of Licecil with half gallon of kerosene and spray this mixture at intervals of three days. All of our customers who gave Licecil a thorough test were highly satisfied with the results. Full directions and circulars sent with all orders. Prices: 1 bottle, \$1.00; 3 bottles, \$2.50; 1/2 gallon, \$2.50; gallon, \$4.00. Sent by express only.



SALVET HOG OIL

A medicated oil for using in any make of hog oiler. This is much superior to any black oil; lasts longer and does the work more thoroughly. 5-gal. can, \$4.00; by express only.

LEE'S POULTRY SUPPLIES

These products were invented by George H. Lee, the author of the Lee books, for use in his own poultry work. It is the oldest and most popular line on the market.

LEE'S EGG-O-HATCH

A preparation for putting on the eggs in an incubator to make them hatch better. It strengthens the chick and rots or weakens the shell. The solution is very rich in free oxygen. By express, 52c; by parcel post, 58c.

LEE'S GEMOZONE

During eighteen years has proven wonderfully effective for diseases of poultry, including roup, colds, sore head, swelled head, chicken pox, canker, cholera and diarrhoea. Most diseases are spread through the drinking water and germs picked up with food. Germozone in the drinking water prevents these troubles also. Thousands give it regularly twice a week to old and young chickens. Price, 4 oz. size, 42c; 12 oz., 78c; 32 oz. size, \$1.56. War tax included. Not mailable.

Gemozone Tablets: 26c; 68c a box; by parcel post paid.

	By	Parcel
	Express	Post
Lee's Egg Maker: 2-lb. box	\$0.42	\$0.50
Lee's Egg Maker: 5-lb. box	.93	1.05
Lee's Lice Powder: Small size	.25	.35
Lee's Lice Powder: Large size	.50	.65
Lee's Eggolatum: Per jar	.52	.58
Lee's Liquid Lice Killer: 1 quart	.60	*
Lee's Liquid Lice Killer: 2 quarts	.90	*
Lee's Liquid Lice Killer: Gallon	1.50	*
Lee's White Diarrhoea Remedy: 4-oz. bottle	.25	*
Lee's White Diarrhoea Cure: 12-oz. bottle	.50	*

*Not mailable.

R. H. CO.'S POULTRY SUPPLIES

CONKEY'S POULTRY REMEDIES

We recommend Conkey's because we know Conkey's is absolutely dependable. Conkey's must satisfy you or we'll refund your money quick.

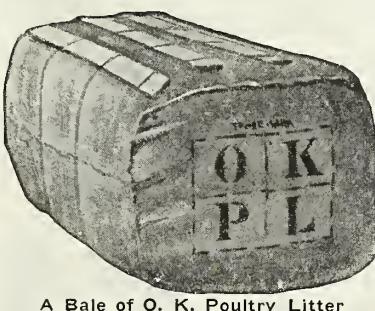


By Express
War Tax
Added
Post

Conkey's Cholera Remedy, small size.....	\$0.26	\$0.30
Conkey's Cholera Remedy, large size.....	.52	.60
Conkey's Gape Cure, small size.....	.26	.30
Conkey's Gape Cure, large size.....	.52	.60
Conkey's Roup Powder, small size.....	.26	.30
Conkey's Roup Powder, large size.....	.52	.60
Conkey's Roup Pills, small size.....	.32	.35
Conkey's White Diarrhoea Cure, small size.....	.26	.30
Conkey's White Diarrhoea Cure, large size.....	.52	.60
Conkey's Sohead Remedy, small size.....	.26	.30
Conkey's Sorehead Remedy, large size.....	.52	.60
Conkey's Scaly Leg Remedy, small size.....	.26	.30
Conkey's Poultry Worm Remedy, small size.....	.26	.30
Conkey's Poultry Laxative, small size.....	.26	.30
Conkey's Poultry Conditioner, small size.....	.26	.30
Conkey's Limber Neck Remedy, large size.....	.52	.60
Conkey's Head Lice Ointment, small size.....	.10	.15
Conkey's Head Lice Ointment, large size.....	.25	.30
Conkey's Lice Fix, small size.....	.25	.30
Conkey's Lice Fix, large size.....	.50	.60
Conkey's Canker Special, large size.....	.52	.60
Conkey's Lice Powder, small size.....	.10	.15
Conkey's Lice Powder, 15-oz. size.....	.25	.30
Conkey's Lice Powder, 48-oz. size.....	.50	.60
Conkey's Poultry Tonic, 1½-lb. package.....	.26	.30
Conkey's Poultry Tonic, 3-lb. package.....	.52	.60
Conkey's Poultry Tonic, 12-lb. pail.....	1.65	1.95
Conkey's Poultry Tonic, 25-lb. pail.....	3.12	3.65
Conkey's Lice Liquid, quart can.....	.60	*
Conkey's Lice Liquid ½-gal. can.....	.90	*
Conkey's Lice Liquid, gallon can.....	1.50	*
Conkey's Noxicide, pint can.....	.45	*
Conkey's Noxicide, quart can.....	.70	*
Conkey's Noxicide, ½-gal. can.....	1.15	*
Conkey's Noxicide, gallon can.....	1.80	*
Conkey's Cow Special, 1½-lb. box.....	.52	.60
Conkey's Cow Special, 2½-lb. box.....	1.04	1.10
Conkey's Bag Ointment, small package.....	.26	.30
Conkey's Bag Ointment, large package.....	.52	.60
Conkey's Gall Salve.....	.32	.35
Conkey's Warming Liniment.....	.52	.60
Conkey's Stock Tonic, 1-lb. package.....	.26	.30
Conkey's Stock Tonic, 2½-lb. package.....	.52	.60
Conkey's Stock Tonic, 7-lb. package.....	1.04	1.15
Conkey's Black Head Remedy.....	.52	.55
Conkey's Sulphur Candles .....	.10	.15

Articles marked * are not mailable.

O. K. POULTRY LITTER



A Bale of O. K. Poultry Litter

A perfect scratching mate rial for baby chicks. Superior to straw, alfalfa, meal, etc. A deodorizer, absorbent disinfectant and labor-saving litter. It absorbs all the moisture from droppings. Will last for several months in your brooder or poultry house. Price: 4 lbs., 25c; 18 lbs., \$1.00; 50 lbs., \$2.00. By parcel post, within 2nd zone: 4 lbs., 40c; 18 lbs., \$1.40. Per bale of about 170 lbs., \$5.50 f. o. b. Memphis.

FLY SPRAYS

These are used to keep flies off cows and horses. We carry the best brands on the market.

Cow Ease: Qt., 50c; gal., \$1.25.

Conkey's Fly Knocker: Qt., 60c; gal., \$1.50.

Pratt's Fly Chaser: ½ gal., 85c; gal., \$1.40.

These cannot be mailed.

THOMAS HOG, POULTRY and STOCK POWDER

	By Express	Parcel Post
Dr. Thomas Hog Powders, 2-lb. package.....	\$0.52	\$0.60
Dr. Thomas Hog Powders, 5-lb. bag.....	1.04	1.10
Dr. Thomas Hog Powder, 15-lb. pail.....	2.08	2.30
Dr. Thomas Colic Remedy.....	.52	..
Dr. Thomas Poultry Powders, small size.....	.26	.30
Dr. Thomas Poultry Powders, large size.....	.52	.60
Dr. Thomas Stock Powders, small size.....	.26	.30

LE GEARS POULTRY PRESCRIPTION

Le Gear's Poultry Prescription shortens the moult, aids digestion, sharpens the appetite and stimulates the egg producing organs without injury. More eggs guaranteed with the use of Dr. Le Gears Poultry Prescription.

Price: 1½-lb. package, 26c; by parcel post, 36c.

Price: 3½-lb. package, 52c; by parcel post, 65c.

Price: 9½-lb. package, \$1.04; by parcel post, \$1.26.

Le Gears Worm Remedy for Horses, 63c; by parcel post, 70c. Above prices include war tax.

STERLINGWORTH SALT CAT

A scientific combination to keep pigs in health. Every pigeon fancier should feed Salt Cat. Per brick, 22c; war tax added; by parcel post, 30c.

STERLINGWORTH REMEDIES, ETC.

	Per Box, War Tax	Added	By Parcel Post
Sterlingworth Ant Driver.....	\$0.26		\$0.30
Sterlingworth Bed Bug Killer.....	.26		.30
Sterlingworth Roach Killer.....	.26		.30
Sterlingworth Roach Killer, lb.....	1.00		1.10

RAX

The scientific destroyer of rats; not a poison. They die outdoors; harmless to all other animals and human beings. Rax is a bacteriological preparation containing pure cultures of active virus which has a deadly effect on rats and mice. Circulars on application. Price: 75c per bottle, enough for 500 feet of floor space; 85c parcel post.

RAT ANNIHILATOR

The modern rat destroyer. Kills and completely consumes the body of the rodent, leaving no bad odor. Simple to use; safe, sure and sanitary. Per box, 20c; 12 boxes, \$2.00, war tax added. Not mailable.

RED CROSS RAT AND MOUSE EMBALMER

A sure rat and mouse destroyer that does the work thoroughly without any odor. It is absolutely the best preparation of its kind.

The past summer the rats and mice became so bad in our retail store that we were forced to sit up at nights to keep them from destroying our goods. We tried many remedies, traps of all kinds; in fact, we spent \$20.00 or \$30.00 trying to stop them but without avail. A friend of ours told us to try Red Cross Rat Embalmer and we must say it did the work. We sold it to dozens of our neighbors on Front Street, and all have had fine results. If you are bothered with rats or mice, we can help you get rid of them. Price: 50c, \$1.00 and \$3.00 per can; by express only. Red Cross Rat and Mouse Embalmer being poison, cannot be mailed.



BARIUM CARBONATE

Sure death to rats and mice; non-poisonous. Recommended by the U. S. government. Pkg., 25c; 6 pkgs., \$1.20; by parcel post: Pkg., 35c.

PEERLESS AUTOMATIC RAT TRAP

The best rat trap ever invented, never fails, different from all others from the fact that it catches them all the time. Mr. Rat is mighty smart but the Peerless Automatic Rat Trap is just a little smarter. Circulars on request. Price: Each, \$8.50; f. o. b. Memphis.

BENNETT'S MILK BONE DOG AND PUPPY CAKES

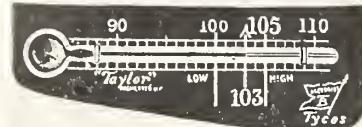
	By Exp.	Parcel Post
Bennett's Milk Bone Dog Cakes, box.....	\$0.40	\$0.50
Bennett's Milk Bone Puppy Cakes.....	.40	.50

SPRATT'S DOG CAKES

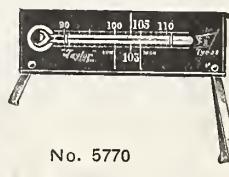
	By Exp.	Parcel Post
Spratt's Dog Cakes, -2lb. box.....	\$0.40	\$0.50
Spratt's Dog Cakes, 4-lb. box.....	.70	.85
Spratt's Dog Cakes, 25-lb. box.....	3.00	..
Spratt's Puppy Cakes, 2-lb. box.....	.40	.50

R. H. CO.'S POULTRY SUPPLIES

INCUBATOR and BROODER THERMOMETERS



No. 5774



No. 5770

We handle the celebrated Tyco Thermometer. They can be used in any make of incubator. Just state which machine you are using and whether you want the Thermometer to hang or to stand. Prices as follows:

No. 5770—Straight pattern, with adjustable legs, each	\$.85
No. 5774—Angle pattern, to hook on wire, each	.80
No. 5780—Flat pattern Thermometer, each	.80
Tyco Thermometer—For Buckeye Incubator, each	1.00
Tyco Thermometer—For Cyphers Incubator, each	1.00
Tyco Thermometer—For Cycle Hatcher, each	1.00
Old Trusty—Incubator Thermometer, each	1.00
No. 5790—Tyco Brooder Thermometer, each	.60
No. 5794—Tyco Brooder Thermometer, each	.50
No. 5715—Tyco Dairy Thermometer, each	.50
No. 5780—Tyco Hot Bed Thermometer, each	2.00
No. 100—Tyco Weather Thermometer, each	.50
Prairie State—Incubator Thermometer, each	1.00
By parcel post, 10c extra.	

INCUBATOR AND BROODER LAMPS

No. 1 LAMP BOWLS—Each	\$.60
No. 2 LAMP BOWLS—Each	.75
No. 3 LAMP BOWLS—Each	1.00
LAMP BURNERS—Three sizes, 50c, 75c and	\$1.00 each.

LAMP WICKS (Cotton)—All sizes, 3 for 10c; 12 for 35c, parcel post paid.

TYCOS INCUBATOR HYGROMETERS
Millions of chicks die in the shell every year for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the "Tyco" Incubator Hygrometer as necessary as the "Tyco" Incubator Thermometer. Price: Each, \$1.50; by parcel post, \$1.60.

Extra Wicks, 10c each.

MANDY LEE HYGROMETER

For testing the moisture in incubators; very necessary for making a successful hatch. Complete with directions. Price: Each, \$2.00, parcel post paid. Extra wicks. Each, 10c; 3 for 25c.

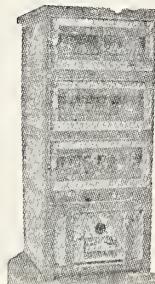


The Greatest Incubator Invention in 20 YEARS.



THE DANDY EGG TESTER

Will fit any hand lamp and test your eggs in a most satisfactory manner. Price, each, 35c; by parcel post, 45c.



SUCCESSFUL OAT SPROUTER

Made in sections, double galvanized steel wall construction, will sprout oats, barley, etc, safely and quickly. Feed sprouted oats to the hens and watch them turn out the eggs. Full directions sent with every machine. Price, No. 1, 2-tray: Each, \$12.00; No. 2 4-tray: Each, \$15.00; No. 3, 6-tray: Each, \$18.75.

PETTY POULTRY PUNCHES

These are made for marking baby chicks by punching a hole in the web between the toes; does not lame the chick, and will mark the various grades. Very simple and satisfactory. Price, each, 25c, parcel post paid.



MOE'S NEVER FAIL TRAP NEST

As the name implies, it never fails. Every nest set up and ready for use when shipped. No. 34, 12x12x14½, complete, each, \$2.30; by parcel post, No. 34, \$2.65.

BURRILL PIGEON BANDS

In all colors, numbered in pairs. Slip on like a key ring. Excellent. Price, 25c per dozen pairs; by parcel post, 30c.

PERFECTION CELLULOID KEY RING



Perfection Colored Celluloid Bands. These slip on like a key ring; cannot drop off; easily removed if necessary. Made of the various colors—white, pink, yellow, green, dark blue, light blue, red and ruby. Made in all sizes. When ordered state for what breed and color you want them. Prices as follows:

	Doz.	25	50	100
NO. 1—Asiatic breeds	\$.20	\$.35	\$.60	\$1.00
NO. 2—Mediterranean breeds	.20	.35	.60	1.00
NO. 3—American or Leghorn	.20	.35	.60	1.00
NO. 4—Bantam and growing stock	.20	.35	.60	1.00
NO. 5—Pigeon size	.20	.35	.60	1.00
NO. 6—Baby Chick size	.20	.35	.60	1.00

THE O. K. CHICK MARKING BAND

These leg bands are made of aluminum, and are adjustable to three sizes. As the chick grows you do not have the trouble of changing bands and hunting up corresponding numbers. You simply let this band out to the next slot, and there is no possibility of getting the wrong number or making a mistake.

Price, Dozen, 20c; 100, \$1.00. Parcel Post paid.

VICTOR COLORED NUMBERED LEG BANDS

An extra strong colored band with large numbers that can be easily seen without picking up the fowl. We can furnish them in Red, Yellow, Green, Blue and White. They fit any breed, being adjustable. Numbered from one to one hundred. Price, Doz., 50c; 25, \$1.00; 100, \$3.50; parcel post paid.



CAPITAL LEG BANDS

Made of Aluminum, extra strong and smooth, adjustable to any size fowl. Have raised numbers; easy to put on. Price, Doz., 20c; 25, 40c; 50, 75c; 100, \$1.25; parcel post paid.

CHAMPION LEG BAND

These are adjustable to fit any size fowl, very light and will not come off easily. Numbered from 1 to 300. Price, per doz., 15c; 25, 25c; 100, 75c; parcel post paid.

RELIABLE X-RAY EGG CANDLER
Tests six eggs at a time. You need no lamp, no dark or secluded spot. It not only enables you to test your eggs for market, but also tests them for fertility, after seven days' incubation. Price: Each, \$1.25; f. o. b. Memphis; parcel post, \$1.45.

ANTI-SITTING DEVICE

The humane anti-sitting device is a little article that will stop a hen sitting in 48 hours without the slightest pain or suffering to the hen; easily put on with a clasp on the leg. Ask for circulars. Price, each, 10c; per doz., \$1.00; parcel post paid.



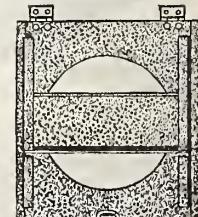
AUTOMATIC CHICK GREASER

Kills mites, head lice and other insects on the baby chicks while they are eating; their heads rub against the wick and they grease themselves while satisfying their hunger. A very simple little machine. Price: Each, complete, \$1.10; by parcel post, \$1.25.



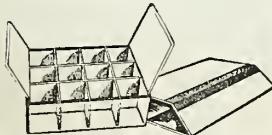
MOE'S TRAP-NEST FRONT

The trap Nest Front that we offer is quickly attached to any box style nest. Cheaper and better than making your own. Simple in design, well made, trapping the hen without fail. It is made from galvanized iron, 11 inches high, and is furnished complete with hinges. Price, each, \$2.00; by parcel post, \$2.35.



R. H. CO.'S EGG SHIPPING BOXES

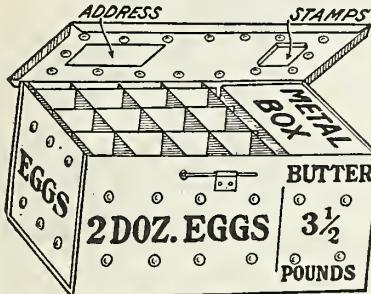
PARCEL POST EGG SHIPPING BOXES



These boxes are so constructed that each egg is separated by a thickness of corrugated board and the entire contents are surrounded by a double wall of air-cushioned corrugated board. Absolute protection is therefore assured.

	Express	Parcel Post		
Each	Doz.	Each	Doz.	
12 egg size...	\$0.15	\$1.50	\$0.20	\$1.70
24 egg size...	.20	2.00	.25	2.75
36 egg size...	.25	2.50	.35	2.80
48 egg size...	.35	3.50	.45	3.90
60 egg size...	.40	4.00	.50	4.45
72 egg size...	.45	4.50	.55	5.05
120 egg size...	.60	6.00	.75	6.75

THE ALUMINIZED METAL EGG SHIPPING CRATES



solve the problem of shipping eggs, butter and other farm products by parcel post. They are made for continued use, being strongly constructed but light in weight.

All crates are provided with built-in shock absorbers to give a cushion for the eggs. Fillers to hold the eggs are made for long life.

Metal Egg Crates do not require outside wrapping for mailing. A short string only is needed for tying "pin" which holds lid securely closed.

THREE STYLES

Metal Egg Crates are made to hold two, three, four and six dozen eggs each, also combination crates to hold eggs and butter of different quantities. Ask for circulars.

1½ doz. size, all eggs: Each, 85c; by parcel post, 95c.

2 doz. size, all eggs: Each, \$1.00; by parcel post, \$1.15.

3 doz. size, all eggs: Each, \$1.25; by parcel post, \$1.45.

4 doz. size, all eggs: Each, \$1.50; by parcel post, \$1.70.

6 doz. size, all eggs: Each, \$1.75; by parcel post, \$2.00.

Extra fillers for any of above eggs crates: 60c a set; by parcel post, 65c set.

COMBINATION CRATES

No. 1—Holds 2 dozen eggs and 7 lbs. butter: Each, \$1.75; by parcel post, \$1.90.

No. 2—Holds 1 dozen eggs and 3½ lbs. butter: Each, \$1.50; by parcel post, \$1.65.

No. 3—Holds 2 dozen eggs and 3 lbs. butter: Each, \$1.65; by parcel post, \$1.80.

No. 4—Holds 3 dozen eggs and 3 lbs. butter: Each, \$1.85; by parcel post, \$2.00.

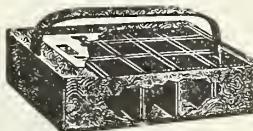
METAL BUTTER CRATES

No. 6—Holds 6 lbs. of butter: Each, \$2.00; by parcel post, \$2.25.

No. 7—Holds 9 lbs. of butter: Each, \$2.50; by parcel post, \$2.70.

No. 5—Holds 14 lbs. of butter: Each, \$2.50; by parcel post, \$2.70.

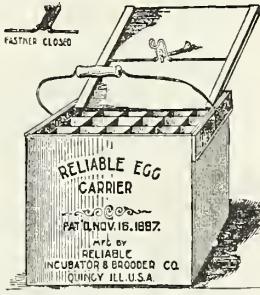
EYRIE EGG SHIPPING BOXES



Specially made for shipping or delivering eggs for setting by express. They are made of corrugated paper, which is the best packing material known. It provides a cushion, which while elastic, will not crush. The insertion of the handle automatically locks the box. The handle also prevents the putting of anything on top of the box, and provides a means of handling it, thus limiting the liability of rough usage by the express agent.

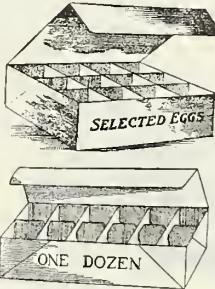
	Express	Parcel Post		
Each	Doz.	Each	Doz.	
15-egg size ...	\$0.25	\$2.50	\$0.35	\$2.90
30-egg size ...	.40	3.95	.50	4.00

RELIABLE EGG CARRIER



One of the safest, best and most complete egg carriers on the market. It is equipped with an adjustable cover and a patent combination lifter and fastener. Price: 12 dozen egg size: Each, \$1.50; by parcel post, within Second Zone, \$1.75.

CARDBOARD EGG CARTONS



These are intended for delivering eggs to consumers. Hold one dozen each.

Made in two types, three rows, as per illustrated and two rows longer in shape. Prices uniform. Doz., 20c, by express; 30c by parcel post, 100, \$1.50 by express; by parcel post: \$1.85; 1,000, \$12.50, by express.



BABY CHICK SHIPPING BOXES

DIAMOND EGG SHIPPING BOXES



This is the strongest and safest egg shipping box on the market. Especially recommended for sitting eggs.

24-egg size: Each, 40c; doz., \$4.00; express. Parcel post: Each, 50c.

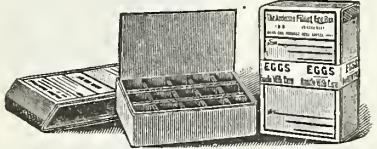
48-egg size: Each, 40c; doz., \$4.00; express. Parcel post: Each, 50c.

50-egg size: Each, 40c; doz., \$4.00; express. Parcel post: Each, 50c.

60-egg size: Each, 50c; doz., \$5.00; express. Parcel post: Each, 65c.

72-egg size: Each, 60c; doz., \$6.00; express. Parcel post: Each, 80c.

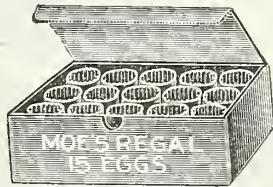
ANDERSON SITTING EGG SHIPPING BOXES



are made of corrugated paper with double faced corrugated paper partitions protecting each individual egg.

	Express	Parcel Post		
Each	Doz.	Each	Doz.	
15-egg size...	\$0.20	\$2.00	\$0.30	\$2.20
30-egg size...	.30	3.00	.40	3.30
50-egg size...	.40	4.00	.50	4.40
100-egg size...	.60	6.50	.75	7.00

MOE'S REGAL 15-EGG BOX



Every egg in a separate cardboard tube protected by a heavy outside corrugated cardboard box. One of the strongest shipping boxes for sitting eggs on the market.

No. 14—15-egg size: Each, 25c, express; 30c, parcel post.

No. 15—30-egg size: Each, 40c, express; 50c, parcel post.

No. 16—50-egg size: Each, 60c, express; 75c, parcel post.

It is made from corrugated paper as the Anderson Egg Box. For shipment it is folded flat, but can be easily set up and made ready for use.

25-chick size: Each, 25c; parcel post, 35c.

50-chick size: Each, 35c; parcel post, 50c.

100-chick size: Each, 50c; parcel post, 65c.

R. H. CO.'S BROOD COOPS, ETC.

THE LAWN PARK BROOD COOP



The wire park pulls out like a bureau drawer and is made from heavy galvanized wire netting. Body of coop is made from strong galvanized steel. Size of coop, 18 inches wide, 19½ inches high, 48 inches long. Protects the chicks from hawks, rats, weasels, vermin, cold and storms. It is so ventilated that when park is pushed in the air circulates freely without admitting rain or snow. Allows sunshine, fresh air, and change of grass. The Park affords plenty of room to feed without crowding. Can be moved from place to place easily. The coop has removable galvanized bottom. Easy to clean. Each, \$4.00. Set up ready to use, f. o. b. Memphis.

POULTRY NETTING



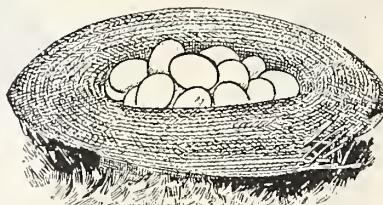
The best grades of No. 19 Galvanized Wire, priced per roll of 150 feet, all f. o. b. Memphis. We do not break or cut rolls.

2-inch mesh, 12 inches high, per roll of 150 feet.....	\$1.70
2-inch mesh, 18 inches high, per roll of 150 feet.....	2.45
2-inch mesh, 24 inches high, per roll of 150 feet.....	3.00
2-inch mesh, 30 inches high, per roll of 150 feet.....	3.70
2-inch mesh, 36 inches high, per roll of 150 feet.....	4.00
2-inch mesh, 48 inches high, per roll of 150 feet.....	5.25
2-inch mesh, 60 inches high, per roll of 150 feet.....	6.40
2-inch mesh, 72 inches high, per roll of 150 feet.....	7.80
1-inch mesh, 12 inches high, per roll of 150 feet.....	3.25
1-inch mesh, 18 inches high, per roll of 150 feet.....	4.70
1-inch mesh, 24 inches high, per roll of 150 feet.....	5.90
1-inch mesh, 30 inches high, per roll of 150 feet.....	7.00
1-inch mesh, 36 inches high, per roll of 150 feet.....	8.00
1-inch mesh, 48 inches high, per roll of 150 feet.....	10.50

NEST EGGS



Lime Nest Egg



China Nest Eggs

These are very effective, especially the medicated ones, which not only act as a nest egg, but will kill mites and lice at the same time. Prices as follows:

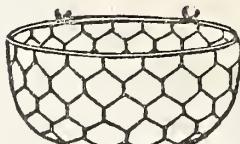
Medicated Nest Eggs: doz., 75c; by parcel post, 90c.

Lime Nest Eggs: doz., 40c; by parcel post, 55c.

China Nest Eggs: doz., 45c; by parcel post, 55c.

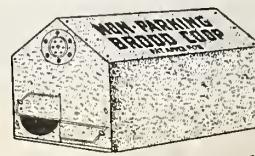
Bisque Nest Eggs: doz., 60c; by parcel post, 75c.

WIRE HEN'S NESTS



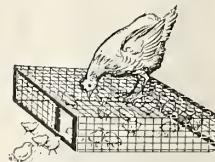
Made of copper steel wire, with plate steel ribs and heavy top wire; all copper finish. Provides a clean sanitary nest; it is fastened to the wall with nails or screw hooks. Price, 14-inch nest: Each, 35c; 6 for \$1.75; by parcel post: Each, 45c.

THE "NON-PARKING" BROOD COOP



The "Non-Parking" Coop is the most roomy coop made without a park. Size 18 inches wide, 19 inches high and 25 inches long. It is equipped with Overhead Damper Ventilation System, which provides fresh air at all times without chilling the chicks. The height of the coop insures plenty of fresh air overhead, which prevents smothering, so common in the small cheap coops. The "jiffy" removable bottom takes the drudgery out of cleaning, making it simple, quick and easy. If this were the only advantage of the "Non-Parking" Coop you would select it, but with its many other Exclusive Features, it is known as the superior of all coops without a park. All set up ready to use. Price: Each, \$2.50; by freight or express.

THE PERFECTION CHICK FEEDER



This simple wire feeder protects the little chicks and insures them plenty of feed, and will pay for itself many times over in economy of feed. It can be used to prevent mother hens from straying with their broods, and also in connection with the Lawn Park Brood Coops. Price, each, \$1.50. By express only.

SPECIAL COMBINATION

The "Non-Parking" Coop is so constructed that the "Babie" Chick Feeder locks to the front of the coop and forms an enclosure in which the chicks may be fed away from the hen, and also may have free range on grass, enjoy sunshine and fresh air and at the same time be fully protected from hawks, rats, cats, dogs and all chick enemies. Not quite as convenient, but has many of the advantages of the "Lawn Park" Coop. Fully Guaranteed. All set up ready to use.

Price of Non-Parking Coop with the Babie Chick Feeder, \$3.75; by freight or express only.

EYRIE SHIPPING COOPS

Light in weight, but strong and durable. Ends and sides heavy corrugated cardboard. Top and bottom wood. Parcel Express Post

NO. A—1-bird size, each.....	\$0.60	\$0.75
NO. B—3-bird size, each.....	.75	.95
NO. C—4-bird size, each.....	.90	1.10
NO. D—5-bird size, each.....	1.00	1.20
NO. E—6-bird size, each.....	1.10	1.25

THE LITTLE PUTNAM STOVE



Keep drinking water from freezing. Water kept at a proper temperature is a big help in getting winter eggs. This little stove makes it easy to snuply your fowls with water at just the right temperature all through winter. Set an ordinary fountain or water dish on this stove and it will keep the water from freezing. Absolutely safe, for if it becomes buried in the litter or is tipped over it will go out. Costs only 20c to 30c for oil to run an entire winter. Price, each, \$2.00; by parcel post, \$2.15.

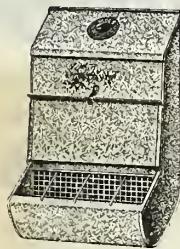
FIBRE WARE PIGEON NESTS



Made of strong fibre, being very durable and light; also are best for sanitary purposes. Price, each, 20c; 6, \$1.25; 12, \$2.25. By parcel post, 5c each, extra.

R. H. CO.'S POULTRY FEED HOPPERS

MOE'S NEVER CLOG DRY FOOD HOPPER



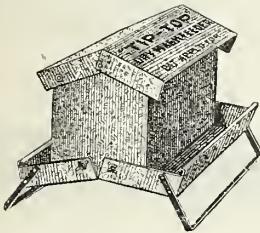
One of the best hoppers on the market. Does not clog, no matter how coarse the mash is.

No. 35—12 qt. capacity, \$1.50; by parcel post, \$1.80.

No. 36—18 qt. capacity, \$2.00; by parcel post, \$2.40.

No. 37—24 qt. capacity, \$2.80, by express only.

THE "TIP-TOP DRY MASH FEEDER



Made entirely of steel and very substantially built. Among its many advantages are the following special features: Its special construction gives it the advantage of extra large capacity, same being about one-half bushel. The "Tip-Top" is provided with steel legs, making it of practical use anywhere. It does not have to be hung on the wall, but can be placed in the center of the scratch pen if desired. The "Tip-Top" has twice the feeding room afforded by the ordinary feeders, and thus accommodates twice as many fowls at one time. The flow of the feed is adjustable by the turn of a screw, making it most practical for all kinds of dry feed. The feed troughs are shedded, making the "Tip-Top" serviceable as an outdoor feeder. The "Tip-Top" is also equipped with agitators operated automatically by the fowls feeding, which absolutely prevents clogging.

Price: No. 12—Holds $\frac{1}{2}$ bushel, \$2.25; by parcel post within 2nd zone, \$2.70.

Price: No. 24—Holds 1 bushel, \$3.75; by express or freight only.

MOE'S STANDARD GRIT AND SHELL BOX



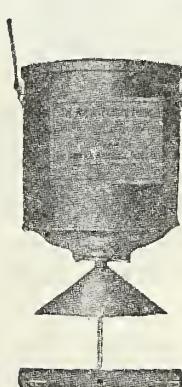
By the use of these self-feeding boxes practically every particle of grit, oyster shells, bone, meal, forcing food, grain, scraps and other materials supplied will be properly used, preventing all waste, and thus increasing the profits.

No. 45—2 compartments, chick size: Each, 40c, express; 55c parcel post.

No. 9—3 compartments, hen size: Each, \$1.00, express; \$1.20, parcel post.

No. 90—4 compartments, hen size: Each, \$1.35, express: \$1.60, parcel post.

THE APACO POULTRY HOPPER



Constructed to fill a long-felt want for a good feeder at a small price. The Apaco Feeder will save work and worry; insures proper feeding, increases egg production, decreases feed bills, scatters the feed thoroughly; it won't clog.

8 qt. size only, \$1.50; by parcel post, \$1.75.

ATSATT SANITARY POULTRY FEEDER



Made with hinged guard to keep fowls from wasting the feed; can be used for mash or any dry grain feed. The tapering guard keeps birds from roosting or setting on top of the feeder. The pan is 18 inches long, 6 inches wide and 3 inches deep, and holds 4 quarts. It is well made, strong and durable.

Price: Each, 85c; by parcel post, \$1.00.

FLAT OR OPEN FEED PAN

Size, $\frac{3}{4}$ inches deep, 6 inches wide, 18 inches long. A flat pan made of heavy galvanized iron; excellent for an open drinking vessel.

Price: 50c; by parcel post, 60c.

OAKES' GRIT AND SHELL BOXES



Growing chicks should have grit, oyster shell and charcoal always before them; and for this purpose our Chick Grit and Shell Box is indispensable. It is made of galvanized steel with three compartments. Height, $7\frac{1}{2}$ inches; width, 6 inches; depth, (front to back), 4 inches at bottom, and 2 inches at top.

Chick size: 75c; by parcel post, 90c.

Large size, for grown fowls: \$1.15; by parcel post, \$1.40.

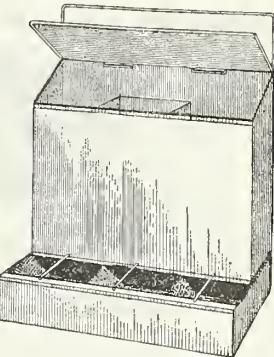
HALLOCK PIGEON FEEDER



Prevents all waste of the feed, made of galvanized iron, strong, durable and pays for itself in avoiding any loss by waste in feeding.

Large size feeder, \$1.25. Small size, \$1.00; post paid.

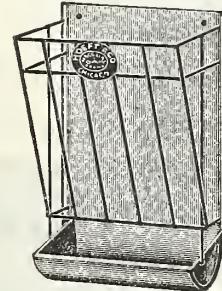
FELKER'S 1-2-3 POULTRY FEEDER



For dry mash, scraps, shells or grit. For more than one kind of feed use separator.

Price: Each, \$1.60; by parcel post, \$1.85.

MOE'S RABBIT HAY AND FEED RACK



For holding roots and hay, alfalfa, clover, etc. It prevents scattering hay and wasting. The round trough at the bottom catches the small, tender leaves. Feed saved soon pays for rack.

Price: Each, 75c; parcel post, \$1.00.

1-2-3 SHELL, GRIT and CHARCOAL FEEDER



A convenient size a pen of fowl. It will serve one, two, or three kinds of feed by using separator.

Price: Each, \$1.00; by parcel post, \$1.25.

FULL-O-PEP DRY MASH FEEDER



One of the best dry mash feeders on the market. No wasting whatever since the inside screen in the cut above rests on top of the dry mash, and as the fowls eat the mash the screen settles. This screen is to keep the fowls from hooking the mash out over the sides of the hopper. Ten or twelve fowls can eat out of this feeder at the same time. The Full-O-Pep Dry Mash Feeder is made in two styles; adjustable so that it can be used for baby chicks, growing chicks or hens.

Price: Adjustable style, \$1.25; by parcel post, \$1.40. Tall style for hens only, \$1.00; parcel post, \$1.15.

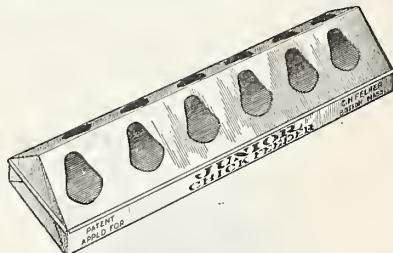
R. H. CO.'S CHICK FEEDERS

MOE'S ROUND BABY CHICK FEEDER



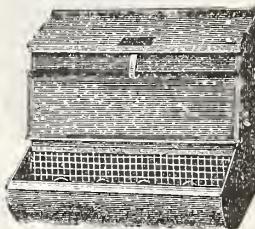
The most convenient feeder on the market. Can also be used for water. Manufactured in two sizes: No. 11, 6 inches with 6 holes, and No. 12, 8 1/4 inches with 12 holes. Price, No. 11, 20c, by express; 30c, by parcel post; No. 12, 30c, by express; 40c, by parcel post.

JUNIOR CHICK FEEDER



Accessible from both sides. Easily filled and cleaned. A most convenient little feeder. Price: 10-inch feeder, Each, 35c; by parcel post, 45c.

OAKES' BABY CHICK FEED HOPPER



This Hopper is made of Galvanized Iron throughout. It is designed especially for feeding baby chicks. The Hopper is 8 inches in height and about 2 3/4 inches wide. It is made with an adjustable swinging front that eliminates any possibility of clogging. Made in two sizes, 10-inch, each, \$1.25; by parcel post, \$1.50; 20-inch, each, \$1.60; by parcel post, \$1.90.

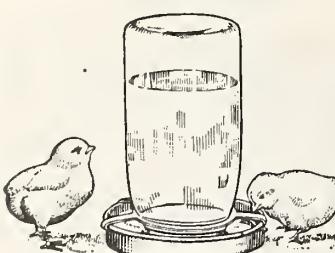
R. H. CO.'S CHICK FOUNTAINS

STAR CHICK FOUNTAIN



No parts to come unsoldered. Leaking impossible. Will fit pint, quart or half-gallon Mason jar. Convenient, cheap and sanitary. One size only. Price of holder without jar. Use your own. No. 32: Each, 15c; 2, 25c. By parcel post, Each, 20c; 2, 35c.

THE N. W. CHICK FOUNTAIN



Feeds water, grain, etc., automatically. Is easy to fill and operate. Just lift the trigger, which releases pan, clip remaining on jar, leaving pan without any obstruction, affording easy cleaning. Made to fit any half-gallon, quart or pint Mason jar. Small size, each, 15c; 2, 25c, by express. Parcel post, each, 20c; 6, 90c. Large size, each, 20c; 6, \$1.00, by express. Parcel post, each, 20c; 2 for 35c.

MOE'S SINGLE CHICK FEEDING TROUGH

Just the thing for feeding baby chicks, has sliding top, easily cleaned; no sharp or rough edges to injure the chicks. Made in 3 sizes:

NO. 55—12 inches long: Each, 35c; by parcel post, 45c.
NO. 56—18 inches long: Each, 45c; by parcel post, 55c.
NO. 57—24 inches long: Each, 65c; by parcel post, 80c.



MOE'S DOUBLE FEEDING CHICK TROUGH

Has two sides, otherwise identical with the single trough.

NO. 58—12 inches long: Each, 50c; by parcel post, 60c.
NO. 59—18 inches long: Each, 65c; by parcel post, 80c.
NO. 60—24 inches long: Each, 75c; by parcel post, 90c.



ATSATT'S CHICK FEEDER

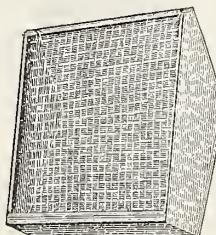
"They cannot get into it." Therefore clean food. The top removes easily for cleaning. Springs back into place. Can be used for either wet or dry feed or for water. Can not rust. Size 10 in. long, 4 in. wide. Just the thing for your brooder. Price, 35c; by parcel post, 45c.



OAKES' CHICK FEED TROUGHS



These troughs are very convenient for feeding flocks of growing chicks. The trough is made on a half circle so that every bit of feed can be easily eaten out of it. 10-inch trough, 35c; by parcel post, 50c; 20-inch trough, 50c; by parcel post, 75c.



DEVELOPER DRY MASH FEEDER

This hopper was designed for growing chicks, after they are large enough to be taken out of the baby chick class. It is a metal feeder with a 1/2-inch mesh hardware cloth over the front to keep from wasting the feed. It is to be hung on the wall at the right height for the chicks.

Price, No. 1: 15 inches in length, \$1.50; by parcel post, \$1.80.

Price, No. 2: 30 inches in length, \$2.00; by parcel post, \$2.40.

OAKES' FEEDER AND FOUNTAIN

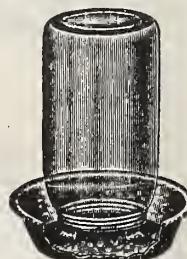


A galvanized pan made to hold any Mason fruit jar. Easily cleaned and keeps water always so it can be seen. Can be used either for feed or water. We do not furnish jars. Price: Each, 15c; 2, 25c; by parcel post, Each, 2, 35c.

ECONOMY POULTRY FOUNTAIN AND FEEDER

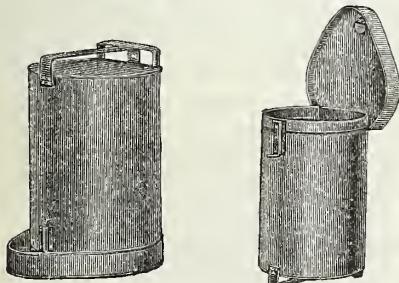
These pans make one of the finest feeders that we know of. In the first place there is nothing loose—only one part. Nothing to get lost. The feet supporting the thread socket into which the Mason jar screws are firmly electric welded to the bottom of the pan. They can be used for either food or water and afford a constant clean supply. We do not furnish the glass jar, but any Mason jar will fit them.

No. 10 Economy Fountain: Each, 30c, by express; 40c, by parcel post.



R. H. CO.'S POULTRY DRINKING FOUNTAINS

OAKES' IMPROVED DROP BOTTOM FOUNTAIN



Easily cleaned. Convenient and well made. A new style fountain that will please.

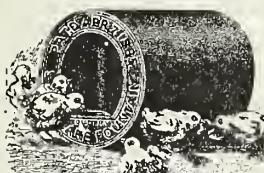
Single wall, $\frac{1}{2}$ gal. size, \$1.00; by parcel post, \$1.10. 1 gal. size, \$1.25; parcel post, \$1.50. 2 gal. size, \$1.50; parcel post, \$1.90. 4 gal. size, \$2.25; parcel post, \$2.75.

OAKES' DOUBLE WALLED DROP BOTTOM FOUNTAINS

Extra heavy with double wall. This construction is similar to the thermos bottle and gives the very best protection from both heat and cold.

1 gal. size: \$2.50; parcel post, \$2.85.
2 gal. size: \$3.00; parcel post, \$3.45.
4 gal. size: \$3.50; parcel post, \$4.00.

Stoneware Barrel Shaped Drinking Fountain

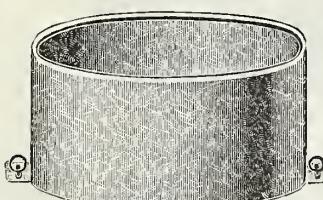


Stoneware Barrel Shaped Drinking Fountain

For any one who desires a crock or earthenware drinking fountain, these fountains are not excelled for poultry and pigeons. They keep the water cool and clean and are so manufactured that it is impossible for chicks to get wet or drown while using them. They are easily filled, never tip over and never get out of order. They are nicely finished and made in two sizes. By freight or express only; cannot be mailed.

Price: 1 gal. size, 90c; 2 gal. size, \$1.50.

MOE'S RABBITT FEED AND WATER DISH



Made of heavy galvanized iron, with roll rim or top flange, which prevents the waste of food; diameter $5\frac{1}{2}$ inches, height $2\frac{1}{2}$ inches. It is held securely to the floor by a simple locking device, so that the dish cannot be tipped over. Easily removed for cleaning.

No. 46—Feed and Water Dish, 30c; by parcel post, 40c.

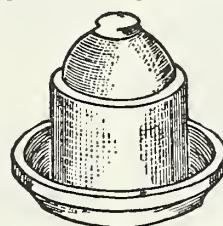
THE DUPLEX FOUNTAIN



The latest and most practical sanitary fountain on the market. This is a double fount, keeps the water clean and pure. Easy to fill, easy to care for. Made in two sizes. Try a Duplex.

4-qt., \$1.25; 8-qt., \$1.75; by parcel post, 4-qt., \$1.50; 8-qt., \$2.10.

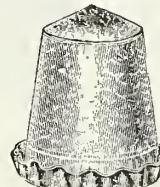
STONEWARE JUG SHAPED POULTRY FOUNTAIN



It is made in two parts, the saucer being separated from the upper portion, so it can be easily separated and thoroughly cleaned. Not mailable.

Qt., 50c; 2 qt., 75c; 4 qt., \$1.00.

TWO-PIECE CHICK FOUNTAINS



This fountain consists of a cone-shaped bucket or can, and a stamped pan which forms the base and the trough from which the fowls drink.

Qt. each, 35c; by parcel post, 45c.
2 qt., 50c; by parcel post, 60c.
3 qt., 65c; by parcel post, 80c.

COOP DRINKING CUP



Used for mating or exhibition coops.
Each, 20c; 12, \$2.00; parcel post, each, 25c.

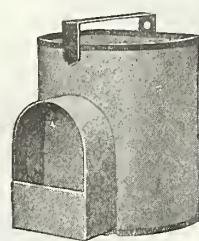
ATSATT'S SANITARY CHICK DRINKING FOUNTAIN



Will go in any brooder; easy to clean; will not upset; not injured by freezing.

Qt. size only, 40c, express; by parcel post, 50c.

STANDARD WALL FOUNTAINS



Are made of the best galvanized iron and will last many years with the proper treatment. It can be hung on wall of a building or against an upright post or board at any height. A hood projects over the water trough and prevents the water from becoming soiled.

Qt., 50c; by parcel post, 60c.
2 qt., 75c; by parcel post, 95c.
Gal., \$1.10; by parcel post, \$1.30.
2 gal., \$1.50; parcel post, \$1.75.

MOE'S TOP FILL FOUNTAIN



The latest and most practical sanitary fountain on the market. This is a double fount, keeps the water clean and pure. Easy to fill; easy to care for.

Gal., \$1.75, by express; \$2.00, by parcel post.

2 gal., \$2.40, by express, \$2.80, by parcel post.

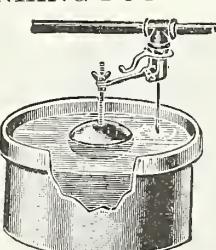
4 gal., \$3.25, by express; \$3.70, by parcel post.

BOTTOM FILL GALVANIZED IRON DRINKING FOUNTAIN

Made of heavy galvanized iron, all seams being carefully turned and soldered; easily cleaned.

Qt. size, 35c, express; 45c, parcel post.
2 qt. size, 50c, express; 60c, parcel post.
3 qt. size, 65c, express; 80c, parcel post.

MOE'S AUTOMATIC POULTRY DRINKING FOUNTAINS



Can be attached to iron pipe, barrel or tank, insures a continuous supply of fresh water without waste. The automatic valve and float is entirely of brass, nickel finish with nothing to rust or clog up. Positive in action.

Price: Complete with pan as illustrated, \$1.50; by parcel post, \$1.65; without pan, \$1.10; parcel post, \$1.20.

R. H. CO.'S BROODERS

PUTNAM HOME MADE BROODER

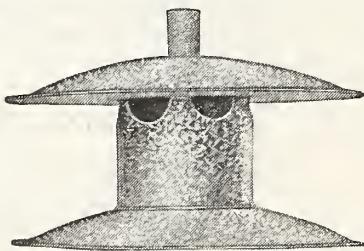
\$4.96



THIS YEAR SAVE YOUR BABY CHICKS AND DO SO AT SMALL COST WITH THE PUTNAM BROODER

The materials used to make it were one shoe box; one sixth yard of oil cloth and one **PUTNAM BROODER HEATER**. The total cost, including Heater, is only \$4.96, parcel post paid. A 14 year old boy can build one in an hour with no tools but saw and hammer. This Brooder will accommodate from 25 to 60 chicks and will take better care of them than any Brooder made, **no matter how elaborate or expensive**. Build one **NOW** and have it ready for the young chicks when they come. The Putnam Brooder-Heater is guaranteed to give satisfaction or it may be returned within 30 days and the money paid for it will be refunded.

Advantages of the Putnam Home Made Brooder



THE BROODER HEATER
Price only \$4.96, Postpaid

Requires filling **BUT ONCE A WEEK**—no other attention. Patented principle—**EFFICIENCY** guaranteed. Thousands in use. Every **OTHER BROODER** must be filled and trimmed **SEVEN TIMES** a week.

No other brooder on the market is **EASIER** or more **SIMPLE** to operate; none uses **SO LITTLE OIL** per chick; brooder consumes less than a gallon of oil **A MONTH**.

Putnam **BROODER HEATER** is so constructed that it acts **LIKE AN OPEN FIRE PLACE**, carrying the foul air out and drawing the fresh air in, thus providing **PERFECT VENTILATION AUTOMATICALLY**.

Heat is radiated from **ABOVE** onto the backs of chicks, giving the natural and soothing effect **OF THE HEN**—without the lice.

Putnam **HOME MADE BROODER** CAN BE OPERATED **ANYWHERE**—in a sunny room in a house, an open shed, or, if the roof be built on it, out of doors; can be **CARRIED ANYWHERE** by a half-grown boy.

The Brooder Heater is made of brass and galvanized iron—**IS PRACTICALLY INDESTRUCTIBLE**.

Capacity of Putnam **HOME MADE BROODER** IS **ELASTIC**. When chicks require more exercising space, heater and hover can be placed in larger box or other structure. **THE BROODER GROWS WITH THE BROOD**.

To summarize: At no price, **HIGH OR LOW**, can a brooder be bought so economical in first cost, also in fuel and labor—so simple and **EASY TO OPERATE**, so perfectly ventilated, or one that will so surely raise **HEALTHY AND VIGOROUS BIRDS**.

IN SUCCESSFUL USE FOR YEARS

THIS BROODER HEATER is in no sense an experiment. It has been on the market **IN SUCCESSFUL USE** for years. Thousands of them have been sold and they have given uniform satisfaction. Here are sample reports—could furnish hundreds of others like them:

Fulton, N. Y., May 11, 1920.

We received the Brooder Heater in time and we would not part with it. I have 200 little chicks which we have raised in this brooder and they are doing fine—have not lost one yet. Before we had this Putnam home-made brooder we lost many by their getting chilled when small.

MRS. C. W. BENNETT. Route 1.

Magnolia, N. J., April 13, 1920.

Enclosed find P. O. money order for which send me 2 more Putnam Brooder heaters and one dozen wicks for same. Kindly rush order. Through me you have sold several of these Brooder Heaters, and I certainly do enjoy teaching others how to use them. There is nothing else to equal it on the market. I am well pleased with this Brooder Heater and always praise it just as I have done in this letter.

W. B. BARTH.

HOW TO ORDER

We do not sell the Putnam Home-made Brooder. We sell the Brooder Heater only. The price of Heater is \$4.75 or \$4.96 parcel post paid. With every Brooder Heater we will send **EASILY FOLLOWED DIRECTIONS** for making the Home-made Brooder. Remember we do not furnish the box, only the Brooder Heater as illustrated on the left below.

THE LITTLE PUTNAM STOVE



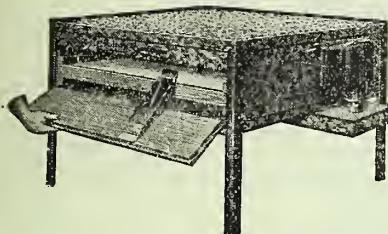
Little Putnam Stove

Keep drinking water from freezing. Water kept at a proper temperature is a big help in getting winter eggs. This little stove makes it easy to supply your fowls with water at just the right temperature all through winter. Set an ordinary fountain or water dish on this stove and it will keep the water from freezing. Absolutely safe, for if it becomes buried in the litter or is tipped over it will go out. Costs only 20c to 30c for oil to run an entire winter. Make your own oat sprouter with a Little Putnam Stove. Directions furnished to all customers. Price, \$2.00, by parcel post, \$2.15.

INCUBATORS AND BROODERS

We are agents for the following well known machines, which we consider the best on the market, without an exception. We carry a full line in stock, also lamp bowls, burners, chimney, wicks, etc., and are prepared to make prompt shipments. Send for special catalogues. Owing to limited space, we are unable to describe them fully, but will send full catalogues and circulars on request. Prices quoted are all f. o. b. Memphis.

FAMOUS OLD TRUSTY INCUBATORS AND BROODERS



The most widely advertised incubator in America. These hot water machines, with copper tank, have been on the market for nearly 30 years and have given utmost satisfaction. They are easy to ventilate and with their new improvements are equal to any hatcher on the market.

The improvements are up to date, the automatic advancing thermometer holder brings the thermometer out to you when opening the door and returns it to the proper place when closing the door and, therefore no more danger of breaking thermometers.

The next big improvement on Old Trusty Incubators is the large oil reservoir, which can be easily filled without removing the tank from the machine.

100 to 120 egg Old Trusty Incubator, each.....	\$15.50
150 to 175 egg Old Trusty Incubator, each.....	18.00
200 to 240 egg Old Trusty Incubator, each.....	22.00
100 chick Old Trusty Lamp Heated Brooder, each.....	9.50
150 chick Old Trusty Lamp Heated Brooder, each.....	10.50
200 chick Old Trusty Lamp Heated Brooder, each.....	11.50
Combination Incubator and Brooder shipped together nested.	
100-120 egg Old Trusty Incubator and 100 chick brooder.....	\$23.00
150-175 egg Old Trusty Incubator and 150 chick brooder.....	27.00
200-250 egg Old Trusty Incubator and 200 chick brooder.....	32.00

F. O. B. Memphis.

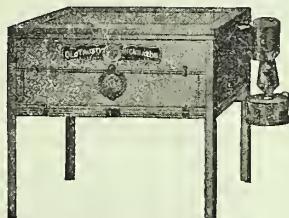
BABY OLD TRUSTY INCUBATOR

60-70 Egg.

Made of the quality galvanized iron with copper tank and has the Special Thermometer holder; in other words, it is like the larger size Old Trusty Incubator, with exception of the bowl.

The Baby Old Trusty is a real hatcher. The manufacturers have kept up the quality in this small machine and put it under the same guarantee as they do on all their incubators.

Price of Baby Old Trusty Incubator, \$12.50 each, f. o. b. Memphis.



PRairie STATE INCUBATORS

Every Prairie State Incubator carries with it a five-year guarantee. What more can you ask? It is, in our opinion the best hot air incubator made. It has the wet sand tray that hatches big strong fluffy chicks.

Prairie State No. 0-100 egg size.....	\$30.00
Prairie State No. 1-150 egg size.....	37.50
Prairie State No. 2-240 egg size.....	52.50
Prairie State No. 3-390 egg size.....	67.50

All F. O. B. Memphis.

CYCLE HATCHER METAL MOTHER INCUBATORS

These are simple, safe and practical machines for hatching chicks on natural principles. All metal, and will not warp. They have perfect ventilation and are both easy to heat and regulate.

The brooder hatcher is a practical incubator and brooder combined, one lamp serving both purposes. These little machines have a large lamp bowl; need filling only twice during the three weeks of operation.

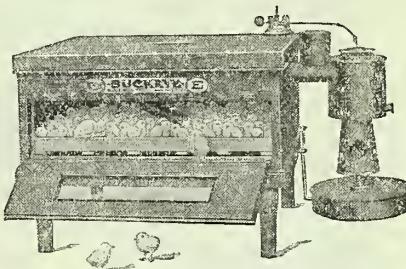
Prices as follows:

Cycle Hatcher-50 egg Incubator, each.....	\$ 9.00
Cycle Hatcher and Brooder Combined, each.....	11.00



BUCKEYE INCUBATORS

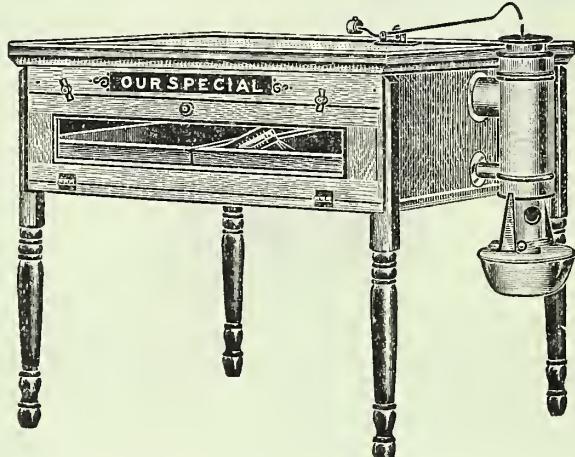
These are hot water machines, well made and easy to operate. Owing to the satisfactory operation and the moderate price at which they are sold, there are probably more Buckeye Incubators in use today than any other make.



Buckeye No. 14—60-65 egg Incubator, galvanized tank.....	\$16.00
Buckeye No. 16—110-120 egg Incubator, galvanized tank.....	27.00
Buckeye No. 17—200 egg Incubator, galvanized tank.....	36.00
Buckeye No. 1—Standard, 110 egg, copper tank.....	37.00
Buckeye No. 2—Standard, 175 egg, copper tank.....	44.00
Buckeye No. 3—Standard, 250 egg, copper tank.....	59.00

F. O. B. Memphis

RELIABLE INCUBATORS



The Reliable Incubators are made to hatch chicks and will do their work with the best of success and with little attention, being very easy to operate. They have an absolutely accurate regulator which does not get out of order. We can furnish the following sizes shipped promptly from Memphis. Other sizes may be shipped from the factory on short notice. Write for complete catalogue of Reliable Incubators.

No. 81—Reliable Junior, 70 egg hot air incubator.....	\$15.00
No. 82—Reliable Junior, 70 egg, hot water incubator.....	17.00
No. 83—Reliable Junior, 125 egg, hot air incubator.....	23.00
No. 52—Reliable Standard, 140 egg, hot water incubator.....	32.00

REED SELF-REGULATING ELECTRIC INCUBATORS

The perfect way, operates on city current or farm plants. No oil lamps to fill, no external heat, no smell, fireproof, foolproof, constant automatic temperature regulation.

When ordering, state voltage on your supply current, as the machine will operate just as well on alternating or direct current. Ask your power plant to give you the proper voltage.

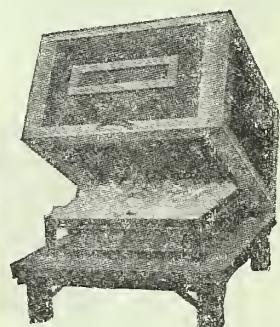
70 egg Reed Electric.....	\$37.50
120 egg Reed Electric.....	45.00
250 egg Reed Electric.....	65.00

All F. O. B. Memphis.

REED ELECTRIC PORTABLE HOVERS

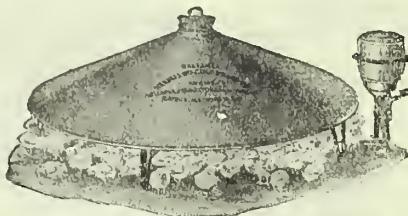
Self-regulating, no trouble, no odor, equipped with automatic cut-off to keep machine from getting too warm, very convenient. You will raise every chick in one of the Reed Electric Portable Hovers.

24-inch Reed Electric Hover.....	\$25.00
30-inch Reed Electric Hover.....	30.00
36-inch Reed Electric Hover.....	35.00



INCUBATORS AND BROODERS

RELIABLE OIL LEVEL, BLUE-FLAME, WICK-LESS, OIL HEATED COLONY HOVER



Reliable Oil Level, Blue-Flame Oil Heater Hover

With hard coal difficult to obtain, we have here a modern hover having the same capacity as the coal burning hover. Note a few of the special good points: burns coal oil, steady blue flame, easy to operate, no wick to turn, plenty of heat, no oil fumes, visible oil feed, convenient and safe, no smoke or gas, flow of oil being regulated automatically. The new improved machines will not overflow. They are perfect in every way. They have the latest model safety device to avoid any overflow of the oil.

Write for circulars about the wonderful hover.

No. 0—30-inch hover, 250 chick size, each.....	\$17.00
No. 1—42-inch hover, 500 chick size, each.....	18.00
No. 2—52-inch hover, 1,000 chick size, each.....	22.00
No. 00—18-inch hover, 50-75 chick size, each.....	10.00

BUCKEYE PORTABLE HOVERS



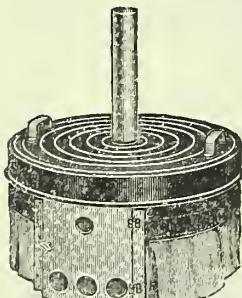
Buckeye Portable Hover

These are very convenient and satisfactory, giving uniform heat, yet having perfect ventilation. Considered to be the best oil burning brooders ever put on the market. Three sizes. Capacity, 75, 100 and 150 chick. Prices as follows:

Buckeye No. 20—Portable Hover.....	\$11.50
Buckeye No. 21—Portable Hover.....	15.00
Buckeye No. 22—Portable Hover.....	18.50

F. O. B. Memphis.

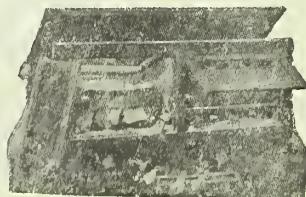
OAKE'S ECONOMY HOVERS



Easy to heat, having a small lamp flame; made of galvanized steel; strong and durable. Being portable it can be used in any box or brooder house.

No. 1, 18-in., 60 chick size, each	\$ 7.50
No. 2, 22-in., 100 chick size, each	11.00

PRAIRIE STATE COLONY BROODERS

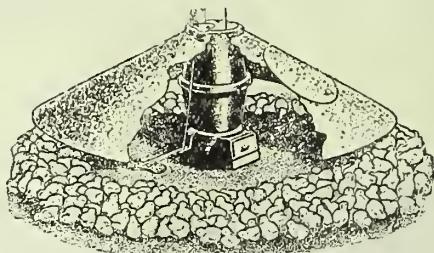


Made in several sizes for out-door use; they have no equal. These outfits come complete all ready to set up and will hover chicks safe and satisfactory in all kinds of weather. Prices are as follows:

Prairie State No. 2 Outdoor Colony Brooder.....	\$35.00
With heat regulator, extra.....	2.00

F. O. B. Memphis.

BUCKEYE STANDARD COLONY BROODER STOVE



This broods from 100 to 500 chicks; is the most remarkable coal burning brooder ever invented; self-regulating, simple and durable; at the same time much safer than oil burning outfits. As easy to operate as a kitchen range. Price, without pipe: No. 18—500 chick size, each..... \$21.00
No. 19—1000 chick size, each..... 26.00
F. O. B. Memphis.

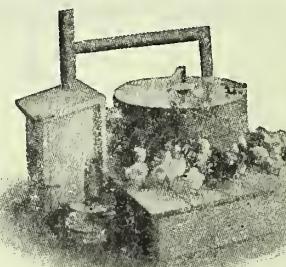
OAKES ELECTRIC INCUBATORS AND BROODERS

Sure hatcher, automatic so the heat is properly controlled, easy and convenient to operate. If handled right they are guaranteed to give satisfaction. Supplied in 32 and 110 voltage. 60 egg Oake's Electric Incubator..... \$21.00
100 egg Oake's Electric Incubator..... 30.00
18-inch 60 chick Oake's Electric Brooder..... 15.00
22-inch 100 chick Oake's Electric Brooder..... 20.00
All F. O. B. Memphis.

RELIABLE STANDARD COAL BURNING BROODER

Guaranteed to be equal of any coal burning brooder on the market and to give absolute satisfaction. Has all the latest improvements, automatic regulator to control check valve, rocker grate, built of heavy gray cast iron with asbestos pad attached to lower plate. Complete specifications, with catalog supplied on request. Price:
No. 9—500 chick size Reliable Coal Burning Brooder.... \$24.00
No. 10—1,000 chick size Reliable Coal Burning Brooder.... 29.00
F. O. B. Manufacturer

THE PRAIRIE STATE UNIVERSAL HOVER



No device ever offered to the poultry raiser has received such endorsement. It may be attached to any form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. Complete with Lamp Case and Regulator, \$10.50; no regulator, \$9.00.

PRAIRIE STATE JUNIOR PORTABLE HOVER

Made of galvanized iron, fireproof, portable, ventilated and easy to heat. Can be used indoors or outdoors; can be easily cleaned, as it sits directly on the floor. Supplied with a powerful wafer regulator which controls the temperature. This is the latest brooding device put out by the Prairie Incubator Co. Price, complete, \$10.00.

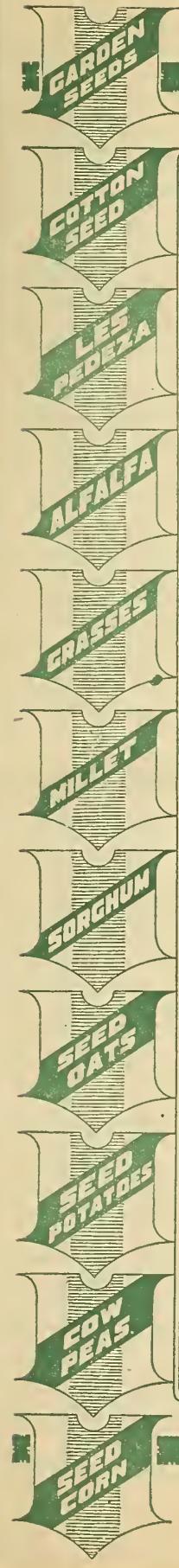
THE SIMPLEX BROODER STOVE

At last we have an oil burning hover with the safety overflow pipe, that automatically regulates the oil flow; makes no odor, gives uniform heat. The Simplex Stove Brooder is the greatest brooding device ever invented and offered to the public. Made in three sizes. Prices as follows:



Baby Simplex Brooder Stove, 250 chick size, each.....	\$24.00
Junior Simplex Brooder Stove, 500 chick size, each.....	30.00
Senior Simplex Brooder Stove, 1,500 chick size, each.....	37.50

F. O. B. Memphis.



RUSSELL-HECKLE SEED CO.

MEMPHIS 24 SOUTH FRONT ST.
WHOLESALE WAREHOUSE
417 SOUTH MAIN ST. TENN.
TOP NOTCH SEEDS

QUANTITY ORDERS

Green Ink Special Price List No. 26

On "Top Notch" Garden and Field Seeds and Fertilizers Described in Our
1922 Spring Catalog

JANUARY 2, 1922

OUR PROMISE—We will endeavor to ship you only stocks that we have every reason to feel proud of—we will examine every shipment before it leaves for you to see that it is right. We want you to be successful with the seeds you buy from us. We want every purchase to be satisfactory to you—more than that we will do everything in our power to make your trading with us a pleasure.

These are special prices in effect today F. O. B. Memphis on larger quantities than are quoted in the Catalog. The Catalog goes to the printer so early that prices on various crops have not been determined therefore we can only quote in the Catalog prices on very small quantities.

You will note these Green Ink prices are much lower than the Catalog—they represent the regular market prices in Memphis today on seeds of the extra fine quality we handle. We could furnish cheaper seed, but they would not produce anything like as good crops as our "Top-Notch" seeds, so you would lose money by planting them. The very best quality you can buy in seeds will be the cheapest to you in the long run.

All prices quoted on this Green Ink List are for immediate acceptance and subject to market changes and unsold stocks. Some crops are short this year and prices may advance any day. We will protect our customers as long as we are able, but we are often forced to advance our prices from day to day, according to changes in the market. All prices on this green ink list are F.O.B. Memphis. Customers pay all carrying charges, either by express or freight, or parcel post. If you order to come by parcel post, be sure to include money for postage.

BUSH BEANS—Green Pod—Bushel 60 Pounds
Catalog pages 2-4 and 5

	4 qts.	Peck	Bu.
Black Valentine	\$1.75	\$3.25	\$12.00
Burpee's Fordhook Favorite	1.25	2.40	9.00
Burpee's Stringless Green Pod	1.35	2.50	9.50
Bountiful	1.25	2.40	9.00
Giant Stringless Green Pod	1.50	2.50	9.50
Red Valentine	1.50	2.50	9.00
Refugee, or 1,000 to 1	1.15	2.15	8.00
Tennessee Green Pod	1.50	2.75	10.50
Hopkins' Early Red Valentine	1.50	2.50	9.00

BUSH BEANS—Wax Pod—Bushel 60 Pounds
Catalog pages 2-4

	4 qts.	Peck	Bu.
Golden Wax Improved	\$1.50	\$2.50	\$9.00
Prolific Black Wax	1.50	2.50	9.00
Refugee Wax	1.40	2.60	9.75
Round Pod Wax	1.40	2.60	9.75

BUSH LIMA BEANS—Bushel 60 Pounds
Catalog pages 3-6

	4 qts.	Peck	Bu.
Jackson's Wonder Bush Lima	\$1.75	\$3.25	\$12.25
Henderson's Bush Lima	1.75	3.25	12.00
Wood's Prolific Bush Lima	1.70	3.20	12.00

POLE OR RUNNING BEANS
Catalog pages 6-8

	4 qts.	Peck	Bu.
Kentucky Wonder	\$1.75	\$3.25	\$12.50
McCaslan	1.80	3.35	12.75
Lazy Wife	1.75	3.30	12.50
Golden Cluster Pole Wax	1.85	3.50	13.50
Kentucky Wonder Golden Wax	1.85	3.50	13.50
Red Speckled Cut Short	1.55	2.90	11.00
Scotia or Striped Creaseback	1.85	3.35	12.50
White Creaseback	1.75	3.00	11.00
White Seed Kentucky Wonder	1.70	3.20	12.00

POLE LIMA OR BUTTERBEANS—Bushel 60 Pounds
Catalog Page 6

	4 qts.	Peck	Bu.
Carolina Sieve or Small Butter	\$1.75	\$3.25	\$12.00
King of the Garden Lima	1.70	3.20	12.00
Large White Lima	1.65	3.15	11.75

GARDEN PEAS, SMOOTH—Bushel 60 Pounds
Catalog page 15

	4 qts.	Peck	Bu.
Alaska	\$1.50	\$2.25	\$8.50
Ameer	1.75	2.75	10.00
Large White Marrowfat	1.15	2.15	8.00

GARDEN PEAS, WRINKLED—Bushel 56 Pounds
Catalog page 15

	4 qts.	Peck	Bu.
American Wonder	\$1.50	\$2.75	\$10.50
Champion of England	1.40	2.60	9.75
Bliss Everbearing	1.55	2.90	11.00
Gradus or Prosperity	2.00	3.50	12.50
Laxtonian	1.55	2.90	11.00
McLean's Little Gem	1.55	2.90	11.00
Telephone	1.75	3.25	12.00
Thos. Laxton	1.60	3.00	11.50

GARDEN AND SWEET CORN—Bushel 56 Pounds
Catalog pages 8-10

	4 qts.	Peck	Bu.
Early Large Adams	\$.75	\$1.15	\$3.75
Extra Early Adams	.75	1.15	3.75
Improved Adams	.75	1.15	3.75
Early Surprise	.60	1.00	3.25

SUGAR CORN—Measured by bushel

Catalog pages 8-10

	4 qts.	Peck	Bu.
Country Gentleman		\$1.00	\$1.50
Golden Bantam		.75	1.25
Henderson's Early Sugar		.75	1.25
Howling Mob		.75	1.25
Stowell's Evergreen		1.00	1.50
Golden Giant		1.50	2.75
Mammoth Sugar		.70	1.20

ONION SETS—Bushel 32 Pounds

Catalog page 14

	4 qts.	Peck	Bu.
Red Wethersfield		\$.50	\$.85
Yellow Danvers		.50	.85
White Silver Skin		.55	.90
White Multiplier		1.00	1.75

POTATOES—Bushel 60 Pounds

Catalog page 17

	Bu.	2 1/4 bu. bags per bag
Red Triumph, Northern	\$2.65	\$6.50
Red Triumph, Second Crop	2.50	5.85
Irish Cobbler, Northern	2.50	6.00
Early Ohio	2.50	6.00
New York Early Rose	2.50	6.00
New York Peerless	2.50	6.00
New York Burbank	2.50	6.00
Lookout Mountain		

SEED SWEET POTATOES—Bushel 45 Pounds

Catalog page 17

	Prices
Porto Rico Yams	
Nancy Hall	Later

FIELD SEED CORN—Bushel 56 Pounds

Catalog pages 36-37

	Peck	Bu.	Bags
Boone County White	\$.50	\$1.60	\$3.00
Cocke's Prolific	.70	2.25	4.00
Red Cob Ensilage	.70	2.00	3.75
R-H Co. Gourd Seed Red Cob	.75	2.50	4.50
Hickory King	.70	2.00	3.70
Iowa Gold Mine	.50	1.60	3.00
Iowa Silver Mine	.50	1.60	3.00
Leaming Yellow	.50	1.60	3.00
Mexican June			
Neal's Paymaster	.50	1.85	3.50
Mosby's Prolific	.60	2.00	3.75
90-Day Yellow Dent	.50	1.60	3.00
North Carolina Prolific	.60	1.85	3.50
R-H Co. Pride of the South	.75	2.50	4.25
Reid's Yellow Dent	.50	1.60	3.00
St. Charles White Red Cob	.50	1.60	3.00
R-H Co. White Dent	.50	1.60	3.00
Snowflake	.65	2.00	3.75
Hastings Prolific	.60	1.85	3.50
Tait's White Dent	.80	2.75	5.40
Tennessee White Red Cob	.55	1.75	3.40

POPCORN

Catalog page 37

	10 lbs.	100 lbs.
White Rice Popcorn	\$1.00	\$8.50
Queen's Golden	1.15	9.00
Japanese Hulless	1.30	11.00

SEED OATS—Bushel 32 Pounds

Catalog page 34

	5 bu.	25 bu.
Early Burt	\$.90	\$.80
Georgia Appler	.95	.85
Red Rust Proof, Fancy	.90	.80
Georgia Fulghum	1.05	.95

COTTONSEED—Bushel 32 Pounds

	Catalog pages 38-39-40-41	3 bu. bag	15 bu. Bu. per bu. per bu.
Acala No. 5	\$2.25	\$2.00 \$1.75
Cleveland Big Boll	2.00	1.70 1.60
Express 350	2.25	2.00 1.75
Foster, No. 120	2.35	2.10 1.85
Hartsville, No. 14	2.25	2.00 1.75
Heavy Fruiter	2.50	2.10 1.90
King's Improved	2.25	1.75 1.65
Mebane Early Triumph	2.20	1.95 1.70
Miller	2.25	2.00 1.75
Mississippi Silk	2.25	2.00 1.75
Lone Star	2.25	2.00 1.75
Polk Improved	2.20	1.95 1.70
Rowden Big Boll	2.20	1.95 1.70
Simpkin's Prolific	2.25	1.75 1.65
Sproul's Big Boll	2.20	1.95 1.70
Trice	2.25	1.95 1.70
Wannamaker-Cleveland	2.15	1.90 1.70
Webber, No. 49	2.25	2.00 1.75
Webber, No. 82	2.20	1.95 1.70

GRASS SEEDS

	Catalog pages 31-32	10 lbs.	Bu. 100 lbs.
Bermuda Grass, Top Notch	\$4.00	\$..... \$36.00
Canada Blue Grass, bu. 14 lbs.	5.50	7.50 50.00
Billion Dollar Grass, bu. 40 lbs.	1.25	4.25 10.00
English Rye Grass, bu. 14 lbs.	1.75	2.25 15.00
Evergreen Lawn Grass, bu. 14 lbs.	3.50	4.75 32.00
Italian Rye Grass, bu. 14 lbs.	1.75	2.25 15.00
Kentucky Blue Grass, bu. 14 lbs.	7.00	9.25 65.00
Meadow Fescue Grass, bu. 14 lbs.	3.00	4.00 27.00
Orchard Grass, Top Notch, bu.			
14 lbs.	2.75	3.75 23.75
Permanent Chicken Pasture Mixture, bu. 40 lbs.	1.50	5.00 10.00
Permanent Hog Pasture Mixture, bu. 14 lbs.	3.75	5.00 33.00
Permanent Pasture Grass Mixture, bu. 14 lbs.	3.50	4.75 32.00
Permanent Meadow Grass Mixture, bu. 14 lbs.	3.50	4.75 32.00
Red Top or Herd's Grass, Top Notch	3.25	..... 26.50
Rhodes Grass	7.50	.....
Sudan Grass, bu. 50 lbs.65	2.75 5.00
Tall Meadow Oat Grass, bu. 14 lbs.	5.00	6.50 45.00
Timothy, Top Notch, bu. 45 lbs.	1.20	4.50 9.50
Timothy and Alsike mixed	2.00	..... 15.00
Shady Spot Lawn Grass, bu. 14 lbs.	5.00	6.50 45.00

MILLET—Bushel 50 Pounds

	Catalog page 34	Peck	Bu. 100 lbs.
Western Golden Millet	\$.50	\$1.65 \$3.20
Tennessee Golden Millet75	2.50 4.75
Pearl or Cattail Millet	3.00	..... 20.00

CLOVER SEEDS

	Catalog pages 30-32	10 lbs.	Bu. 100 lbs.
Alfalfa, Top Notch, bu. 60 lbs.	\$2.50	\$14.75 \$23.75
Alfalfa, Dakota No. 12, bu. 60 lbs.	3.00	17.25 28.00
Alfalfa, Grimm, bu. 60 lbs.	7.50	40.00 65.00
Alsike Clover, bu. 60 lbs.	2.75	15.00 24.00
Lespedeza Clover, bu. 25 lbs.	2.50	5.00 20.00
Mammoth Sapling, bu. 60 lbs.	3.00	16.00 26.00
Melilotus, Sweet Clover, unhulled, bu. 25 lbs.	1.75	3.00 11.75
Melilotus, Sweet Clover, hulled, bu. 60 lbs.	2.00	9.00 14.00
Red Clover, Extra Fancy, bu. 60 lbs.	2.75	15.00 24.00
White Clover, Top Notch, bu. 60 lbs.	5.25	27.50 45.00
Hubam Annual, Sweet	15.00	.....

MULFORD CULTURES

(For all clovers, alfalfa, soy beans and other legumes)

Catalog page 29

One Acre Bottles, each	.....	\$1.50
Five Acre Bottles, each	.....	5.00

FARMOGERM

Inoculation for all clovers, alfalfa, soy beans, etc.

Catalog page 29

One Acre Size, each	.....	\$1.00
Three Acre Size, each	.....	2.50
Twelve Acre Size, each	.....	9.00

SORGHUM-KAFFIR CORN—Bushel 50 Pounds

Catalog page 34

Peck Bu. 100 lbs.

Early Amber	.....	\$.50	\$1.40 \$2.70
Early Orange Cane	.....	.50	1.50 2.90
Red Top or Sumac Sorghum	.....	.60	1.75 3.35
Japanese Honey Cane	.....	.70	2.25 4.25
Texas Seeded Ribbon Cane	.....	.70	2.25 4.25
White Kaffir Corn	.....	.50	1.50 2.75
Red Kaffir Corn	.....	.50	1.50 2.75
Shrock Kaffir Corn	.....	.75	2.50 4.75
Yellow Milo Maize	.....	.50	1.60 3.00
Feterita	.....	.60	1.85 3.50
Egyptian Wheat	.....	1.75	6.00 10.00

PEANUTS—Bushel 22 Pounds

Catalog page 35

Peck Bu. 100 lbs.

Mammoth White Virginia	.....	\$.90	\$3.15 \$13.50
Tennessee Long Red	.....	1.00	3.50 14.00
White Spanish	.....	.55	1.05 7.50
Valencia	.....	.65	2.20 8.00

SOY AND VELVET BEANS—Bushel 60 Pounds

Catalog page 33

Peck Bu.

Biloxi Soy Beans	.....	\$3.00	\$10.00
Oootoan Soy Beans	.....	3.00	10.00
Mammoth Yellow Soy Beans	.....	.90	3.00
90 Day Speckled Velvet Beans	.....	.60	2.00
Osceola Velvet Beans	.....	.90	3.00

STOCK PEAS—Bushel 60 Pounds

Catalog page 35

Peck Bu.

Black Stock Peas	.....	
Brabham Speckled	.....	
California Blackeyes	.....	
Clay Stock	.....	
Mixed Stock	.....	
New Era	.....	
Red Ripper	.....	
Unknown or Wonderful	.....	
Whippoorwill or Speckled	.....	
White Lady	.....	
White Sugar Crowder	.....	

FIELD BEANS—Bushel 60 Pounds

Catalog page 33

Peck Bu.

Mexican Pinto	.....	\$2.25	\$7.50
Red Kidney	.....	2.50	9.00
White Navy	.....	2.50	8.50

MISCELLANEOUS SEEDS

Catalog pages 33-34-35	Peck.	Bu.	100 lbs.
Broom Corn, Missouri Evergreen, bu. 46 lbs.	.....	\$.75	\$2.25 \$4.50
Broom Corn, Oklahoma Dwarf, bu. 46 lbs.	.....	.75	2.25 4.50
Buckwheat, Japanese, bu. 50 lbs.	.....	.85	3.00 5.50
Rape, Dwarf Essex, bu. 50 lbs.	.....	1.55	5.75 11.00
Rice, Upland, bu. 44 lbs.	.....	1.35	4.75 10.00
Sunflower, Mammoth Russian, bu. 25 lbs.	.....	.60	1.75 6.00
Hairy Vetch, bu. 50 lbs.	.....	2.25	8.00 15.00
Augusta Vetch, bu. 50 lbs.	.....	1.50	5.50 10.00
Teosinte, 1 pound 70c; 10 pounds, \$6.00.	.....	

FERTILIZERS

Page 50—100 pound bags.

	100 lbs.	Ton
Armour's Acid Phosphate, 16%	\$1.60	\$27.00
Armour's Cotton Guano, 10-2-1	2.25	40.00
Armour's Corn Special, 11-1-1	2.25	38.00
Armour's Guano, 10-3-3	2.75	50.00
Armour's Sweet Potato Grower	2.75	45.00
Bone Meal Fertilizer	3.00	55.00
Nitrate of Soda	4.25	80.00
Sheep Manure	2.50	40.00



MISCELLANEOUS BABY CHICK FEED

Catalog pages 53-67

	100 lbs.	25 lbs.	lbs.
Conkey's Buttermilk Starting Feed	\$.60	\$1.30	\$4.75
Blatchford's Milk Mash		1.30	4.75
Conkey's Buttermilk Growing Mash	.50	1.15	3.75
Conkey's Baby Chick Grain Feed	.45	.85	3.00
Pratt's Baby Chick Mash	.60	1.30	4.75



FUL-O-PEP POULTRY FEED

Catalog pages 53-67

	100 lbs.	25 lbs.	50 lbs.	lbs.
FUL-O-PEP Dry Mash	\$1.00	\$1.85	\$3.50	
FUL-O-PEP Scratch Feed	.75	1.45	2.60	
FUL-O-PEP Fattening Feed	.85	1.50	2.70	
FUL-O-PEP Growing Mash	1.15	2.10	3.85	
FUL-O-PEP Baby Chick Grain	1.00	1.85	3.50	
FUL-O-PEP Coarse Chick Grain	.95	1.75	3.35	
FUL-O-PEP Pigeon Feed	1.10	2.00	3.75	
FUL-O-PEP Oatmeal	1.25	2.35	4.50	

Send us your orders. Articles not priced not in stock. Will price them later in the season. Our terms are cash with order—please remit with order.

Refer to catalog for Seeds and Articles not listed on this sheet.

MISCELLANEOUS FEED

Catalog pages 54-67

	10 lbs.	25 lbs.	lbs.
Alfalfa Meal		\$	\$2.25
Blatchford's Calf Meal		1.25	4.50
Blatchford's Pig Meal		1.25	4.50
Blatchford's Lamb Meal		1.25	4.00
Digester Tankage		1.10	4.00
Meat Scraps		1.25	4.75
Fish Scraps		1.35	5.00
Dried Buttermilk		3.00	10.50
Feeding Wheat			2.50
Russian Sunflower		1.75	6.00
Wheat Bran			2.00
Buckeye Rolled Oats	.60	1.30	4.75

GRIT, OYSTER SHELL, CHARCOAL

Catalog page 54

	25 lbs.	100 lbs.
Bone Meal, coarse or fine	\$1.35	\$4.75
Crushed Oyster Shell, hen size	.50	1.20
Crushed Oyster Shell, chick size	.50	1.25
Charcoal, coarse or fine	1.25	4.00
Eg-Sur Poultry Grit, hen size	.50	1.25
Cryscro Chick Grit	.80	2.50
Mica Crystal Grit, coarse	.80	2.50
Mica Chick Grit, fine	.80	2.50
Red Cross Pigeon Grit	.80	2.50

Insecticides and Spray Material

POWDERED OR DRY LIME SULPHUR

100-lb. Kegs, each	\$15.00
25-lb. Kegs, each	4.50
5-lb. Packages, each	1.50
1-lb. Packages, each	.35

DRY OR POWDERED ARSENATE OF LEAD

100-lb. Kegs, each	\$27.25
25-lb. Kegs, each	7.50
5-lb. Packages, each	2.25
1-lb. Packages, each	.50

DRY OR POWDERED BORDO MIXTURE

100-lb. Kegs, each	\$19.75
25-lb. Kegs, each	6.00
5-lb. Packages, each	1.75
1-lb. Packages, each	.50

DRY OR POWDERED BORDO ARSENATE

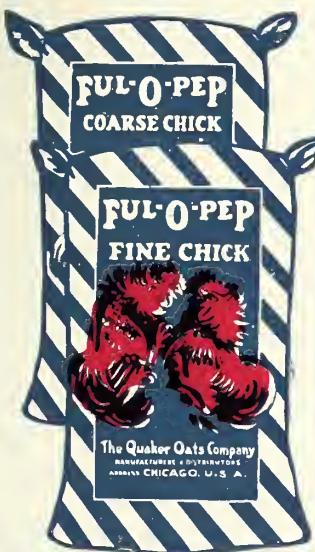
100-lb. Kegs, each	\$24.00
25-lb. Kegs, each	7.00
5-lb. Packages, each	2.25
1-lb. Packages, each	.60

All F. O. B. Memphis.

RUSSELL-HECKLE SEED COMPANY
Sales Store, 24 S. Front St. MEMPHIS, TENNESSEE Wholesale Warehouse, 589 S. Front St.

FUL-O-PEP

Poultry Feeds



Ful-O-Pep Fine Chick Feed

The base of Ful-O-Pep Fine Chick Feed is oatmeal. Besides oatmeal there are but three other ingredients, wheat, corn and fish scraps. The fish scraps is for the purpose of supplying an animal protein content, a very important part of the chicks' ration. Ful-O-Pep Fine Chick Feed is blended "just right." Give it a trial.

Ful-O-Pep Coarse Chick Feed

To be fed in place of fine chick feed just as soon as the chicks are old enough to be weaned from the regular chick size—usually at the age of three weeks. Rich in wheat and hulled oats—quality stands out all over this brand. Be sure to feed it in conjunction with Ful-O-Pep Growing Mash and prevent waste.

"The Ful-O-Pep Way Makes Poultry Pay"



Ful-O-Pep Growing Mash

When fed according to the Ful-O-Pep Way, Ful-O-Pep Growing Mash will produce more pounds of gain in weight on less feed than any other feed on the market. This has been the experience of thousands of other poultry raisers and for this reason it is the cheapest priced feed one can use. The birds at all stages of growth are larger than other birds fed on any other feed. More chicks are raised—no digestive disturbances due to feeding when Ful-O-Pep Growing Mash is used. You are strongly urged to give it a trial. The results will amaze you. Made of oatmeal, meat and fish scraps, some bran, corn meal and hominy feed.

"Dry Mash Makes Eggs The More Mash—More Eggs"

Ful-O-Pep Dry Mash

Reigns supreme over all other mash feeds as "the last word" in egg production. Known from coast to coast as the "feed that has made good." Used by large and small poultry raisers. Recommended by everyone throughout the poultry world. Nothing like it ever offered before for making eggs. Be sure you have the 1922 poultry calendar. Follow the Ful-O-Pep way. Success will be yours.

Ful-O-Pep Scratch Grains

The highest quality scratch feed on the market. Contains corn, wheat, buckwheat, barley, milo, and sunflower seed. In feeding the Ful-O-Pep Way it is important to use this grade of scratch feed. No other can be "just as good," because this feed has been formulated to be fed in conjunction with Ful-O-Pep Dry Mash. No other will do.

Ful-O-Pep Pigeon Feed

Blended just right. No corn—an abundance of peas. No doubt the highest quality pigeon ration ever offered. This is a new feed recently added to the famous Ful-O-Pep line.

See Enclosed Price List for Prices



RUSSELL-HECKLE'S TOP-NOTCH ALFALFA
OR LUCERNE CLOVER



RUSSELL-HECKLE'S
PRIDE OF THE SOUTH
YELLOW DENT CORN



POULTRY FEED, FERTILIZERS,
SPRAYERS, INSECTICIDES,
FRUIT TREES ETC.

Top Notch
FIELD AND GARDEN
Seeds

LESPEDEZA OR JAPAN CLOVER



RUSSELL-HECKLE'S AGALA COTTON

RUSSELL-HECKLE SEED Co.

SALES DEPT.
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MEMPHIS, TENN.

WHOLESALE WAREHOUSE
589-591 80. FRONT ST.